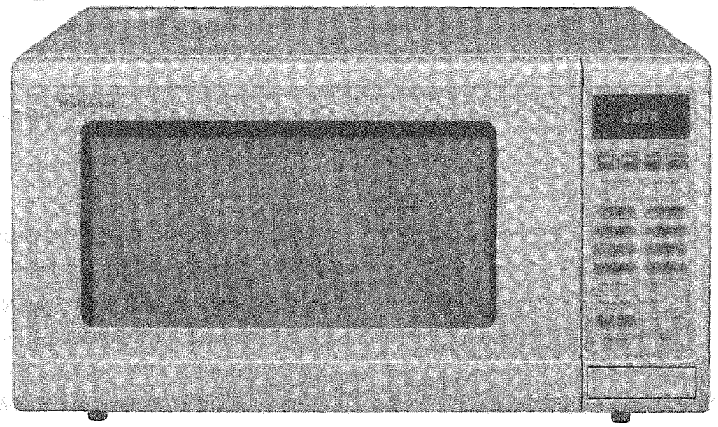
ORDER NO. MOD950404203

Service Manual

Microwave Oven

NN-7755, NN-6755, NN-6655
NN-5755, NN-5655, NN-5625



Specifications

	NN-7755	NN-6755/6655	NN-5755/5655/5625
Power Source :	240 V AC Single Phase, 50 Hz·····For MNQ, MKQ, Models 220 V AC Single Phase, 50 Hz·····For HNE, TNE, XNE Models 220-230 V AC Single Phase, 60 Hz·····For LNK Models		
Power Requirement :	1400 W		1250 W
High Frequency Output :	900 W (IEC705)		800 W (IEC705)
Microwave Frequency :	2450 MHz		
Timer :	99 min. 99 sec.		
Outside Dimensions :	595 mm (W) × 415 mm (D) × 356 mm (H)	555 mm (W) × 425 mm (D) × 306 mm (H)	510 mm (W) × 360 mm (D) × 306 mm (H)
Oven Cavity Dimensions :	415 mm (W) × 385 mm (D) × 259 mm (H)	375 mm (W) × 395 mm (D) × 201 mm (H)	330 mm (W) × 330 mm (D) × 200 mm (H)
Weight :	18.5 kg	17.0 kg	15.0 kg
Specifications subject to change without notice.			

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

WARNING

* This product should be serviced only by trained, qualified personnel.
  This service manual covers products for following markets.
  When troubleshooting or replacing parts, please refer to the country identifications shown below for your applicable product specification.

HNE ..... For Hong Kong
MKQ ..... For Singapore
LNK ..... For Philippines
MNQ ..... For Malaysia
TNE ..... For Thailand, Indonesia
XNE ..... For China

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PRODUCT DISTINATION

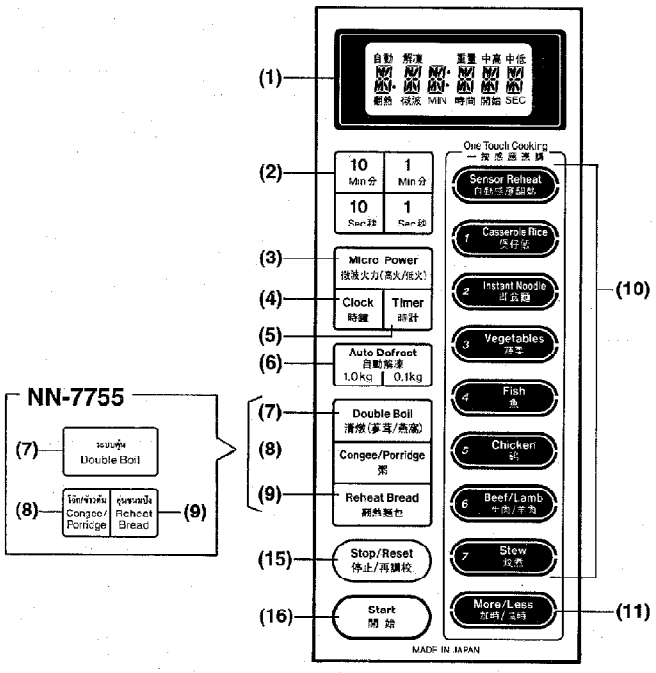
MODEL	HNE	MNQ	MKQ	TNE	LNK	XNE
NN-7755		—	—	○	—	—
NN-6755	○	○	○	○	—	—
NN-6655	○	○	○	○	○	—
NN-5755	○	○	○	—	—	—
NN-5655	○	○	○	○	○	○
NN-5625	○	○	○	—	—	—

FEATURE CHART

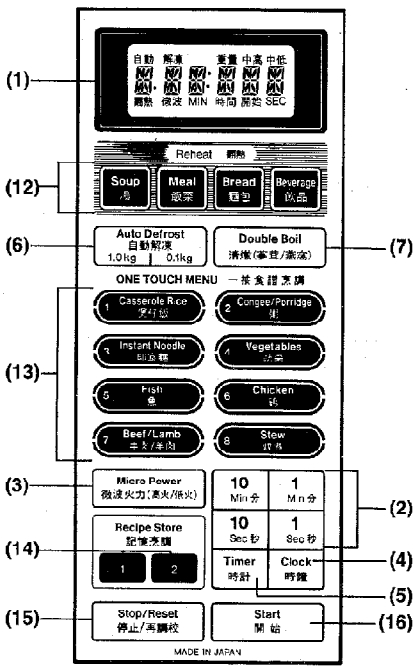
MODEL / FEATURE	NN-7755 NN-6755 NN-5755	NN-6655 NN-5655 NN-5625
Three Stage Cooking	○	○
Auto Defrost	○	○
Sensor Reheat	○	—
One Touch Cooking (Sensor)	○	—
One Touch Menu (Weight)	—	○
Reheat Bread	○	○ Including Reheat Menu
Congee/Porridge	○	○ Including One Touch Menu
Reheat (4 Menu)	—	○
Double Boil	○	○
Recipe Store	—	○
Child Safety Lock	○	○
Operating Guide on the Display	○	○
Delay Start	○	○
Timer/Stand	○	○
Digital Clock	○	○

CONTROL PANEL

NN-7755/NN-6755/NN-5755



NN-6655/NN-5655/NN-5625



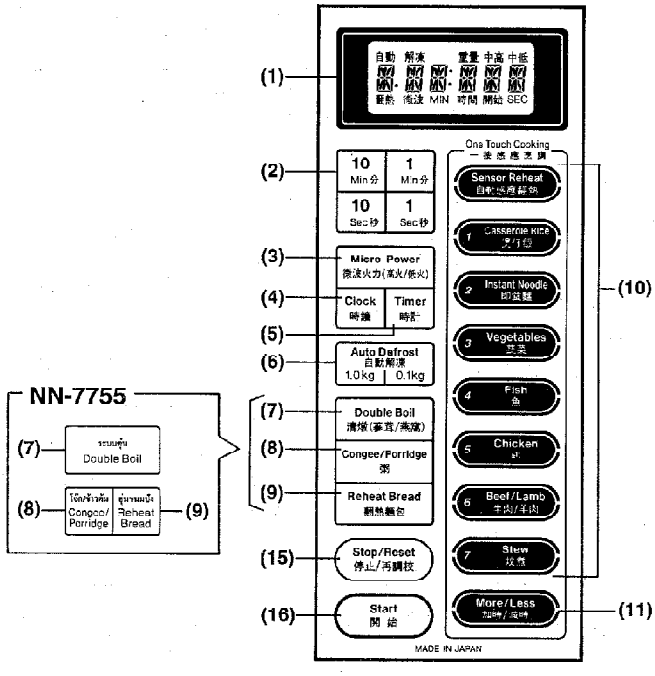
(1) Display Window
(2) Time Pads
(3) Micro Power Pad
(4) Clock Pad
(5) Timer Pad
(6) Auto Defrost Pads
(7) Double Boil Pad
(8) Congee/Porridge Pad
(9) Reheat Bread Pad
(10) One Touch Cooking Pads
(11) More/Less Pad
(12) Reheat Pads
(13) One Touch Menu Pads
(14) Recipe Store Pads
(15) Stop/Reset Pad
(16) Start Pad

FEATURE CHART

MODEL / FEATURE	NN-7755 NN-6755 NN-5755	NN-6655 NN-5655 NN-5625
Three Stage Cooking	○	○
Auto Defrost	○	○
Sensor Reheat	○	—
One Touch Cooking (Sensor)	○	—
One Touch Menu (Weight)	—	○
Reheat Bread	○	○ Including Reheat Menu
Congee/Porridge	○	○ Including One Touch Menu
Reheat (4 Menu)	—	○
Double Boil	○	○
Recipe Store	—	○
Child Safety Lock	○	○
Operating Guide on the Display	○	○
Delay Start	○	○
Timer/Stand	○	○
Digital Clock	○	○

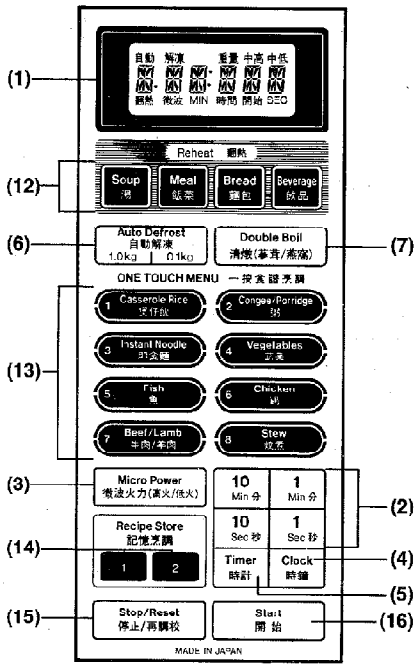
CONTROL PANEL

NN-7755/NN-6755/NN-5755



NN-7755

NN-6655/NN-5655/NN-5625



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(11) More/Less Pad
(12) Reheat Pads
(13) One Touch Menu Pads
(14) Recipe Store Pads
(15) Stop/Reset Pad
(16) Start Pad

OPERATION AND DIGITAL PROGRAMMER CIRCUIT TEST PROCEDURE

Operation Guide on the display:
To assist you in programming, the next operation will appear in the display. When you get used to operate the oven, you can turn off the operation guide.

To turn off:

Timer → OPERATION GUIDE OFF

Press 3 times

To turn on:

Timer → OPERATION GUIDE ON

Press 3 times

Word Prompting

This oven has a bilingual (English/Chinese) display, originally. If you need only English or Chinese, please see as follows:

Start 開 始	• To convert into English only, press Start Pad once.
	• To convert into Chinese only, press Start Pad twice.

NOTE: This should be done just after plugging in.

English display has a special rolling form to prompt the next step, for example, "SET TIME", "PRESS START".

1. To Set Clock

OPERATION	SCROLL DISPLAY
1. Plug the power supply cord into wall outlet.	*WELCOME TO WORD PROMPTING*
2. Press Clock pad.	*——SET TIME*
3. Enter time of day (TOD) by pressing appropriate Time pads.	11:25 *——PRESS CLOCK*
4. Press Clock pad. TOD has now been resistered into the digital programmer circuit and will count up by minutes.	11:25

2. Time Cooking for Two Stage

OPERATION	SCROLL DISPLAY
1. Place a water load in the oven.	
2. Press Micro Power pad once to set High power. (1st stage)	*HIGH* *——SET TIME*
3. Set for 5 seconds by pressing Time pad.	5 SEC *——PRESS START* *HIGH*
4. Press Micro Power pad 4 times to set Medium power. (2nd stage)	*MEDIUM* *——SET TIME*
5. Set for 1 minute by pressing Time pad.	1 00 MIN SEC *——PRESS START* *MEDIUM*
6. Press Start pad.	5 SEC
7. When 1st stage cooking time has elapsed, oven automatically switches to 2nd stage cooking.	1 00 MIN SEC
8. When 2nd stage cooking time has elapsed, oven beeps 5times and shuts off.	*ENJOY YOUR MEAL* 11:25

3. Auto Weight Defrost

OPERATION	SCROLL DISPLAY
1. Set the weight for 1 kg by pressing 1.0 kg pad.	*1.0 KG* *——PRESS START*
2. Press Start Pad. NN-7755···18 min. 30 sec. NN-6755/6655···23 min. 40 sec.	24 00 MIN SEC
3. Press Stop/Reset Pad twice. Oven shuts off.	*Time of day or colon appears in the display.*

4. Demonstration Mode

The demonstration mode designed for retail store display. It is not designed for home use. Cooking will not operate during demonstration mode.

To set demonstration mode

OPERATION	SCROLL DISPLAY
1. Press Clock pad 3 times continuously. Note: To cancel demonstration mode, press Clock pad 3 times continuously.	*WORD PROMPTING* *DEMO MODE* ——*PRESS ANY KEY*

5. To Set Child Safety Lock

OPERATION	SCROLL DISPLAY
1. Press Start pad 3 times continuously. "*LOCK" appears in the display.	* LOCK

6. To Reset Child Lock

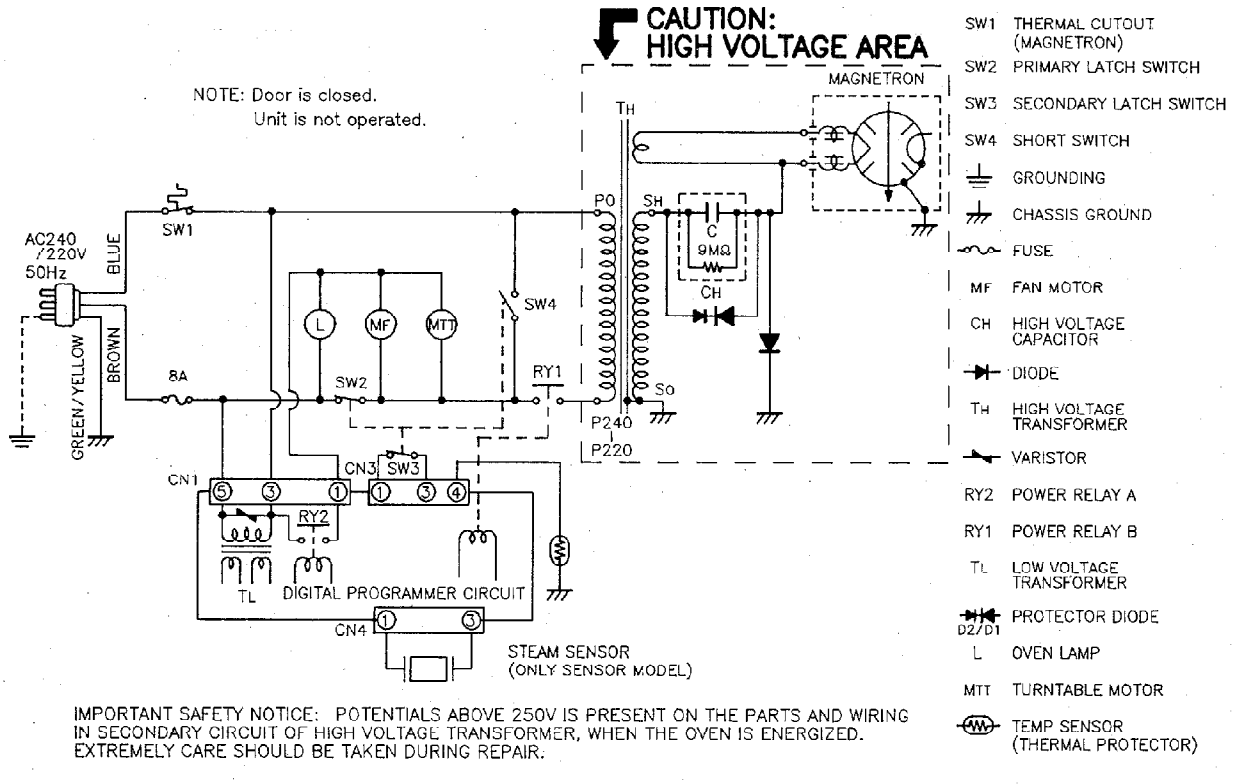
OPERATION	SCROLL DISPLAY
1. Press Stop/Reset pad 3 times continuously. Time of day or colon appears in the display.	11:25

7. Sensor Cooking

NOTE: Make sure that the outer panel is installed before Sensor cooking test, since Sensor function does not operate properly without the outer panel.

OPERATION	SCROLL DISPLAY
1. Pour 150±15cc (4.5±1/2ozs) of room temperature water in a beaker, place the beaker in the center of the oven.	
2. Press the desired Sensor Cooking Category pad. e.g. Set to Sensor Reheat	*SENSOR REHEAT* ——*PRESS START*
3. Press Start pad.	AUTO
4. The steam sensor detects steam about 1.5 to 4 minutes after the Start pad is pressed. Sensor cooking (T1) automatically switches to time cooking (T2). "Auto" disappears with beep sounds and the remainder of cooking time appears in the display window. NOTE: Cooking time will vary depending on the water temperature, the shape of beaker or the power source voltage.	8 SEC 23 MIN SEC
5. When the balance of cooking time has elapsed, oven stops and beeps 5 times.	*ENJOY YOUR MEAL* 11:25

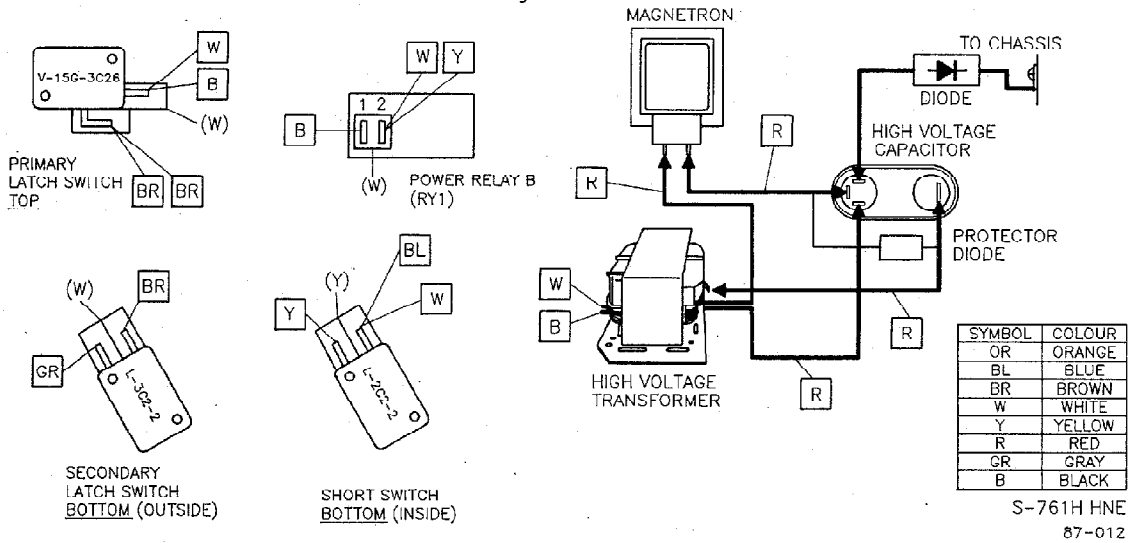
SCHEMATIC DIAGRAM (FOR HNE, XNE, MNQ, MKQ MODELS)



IMPORTANT SAFETY NOTICE: POTENTIALS ABOVE 250V IS PRESENT ON THE PARTS AND WIRING IN SECONDARY CIRCUIT OF HIGH VOLTAGE TRANSFORMER, WHEN THE OVEN IS ENERGIZED. EXTREMELY CARE SHOULD BE TAKEN DURING REPAIR.

WIRING DIAGRAM

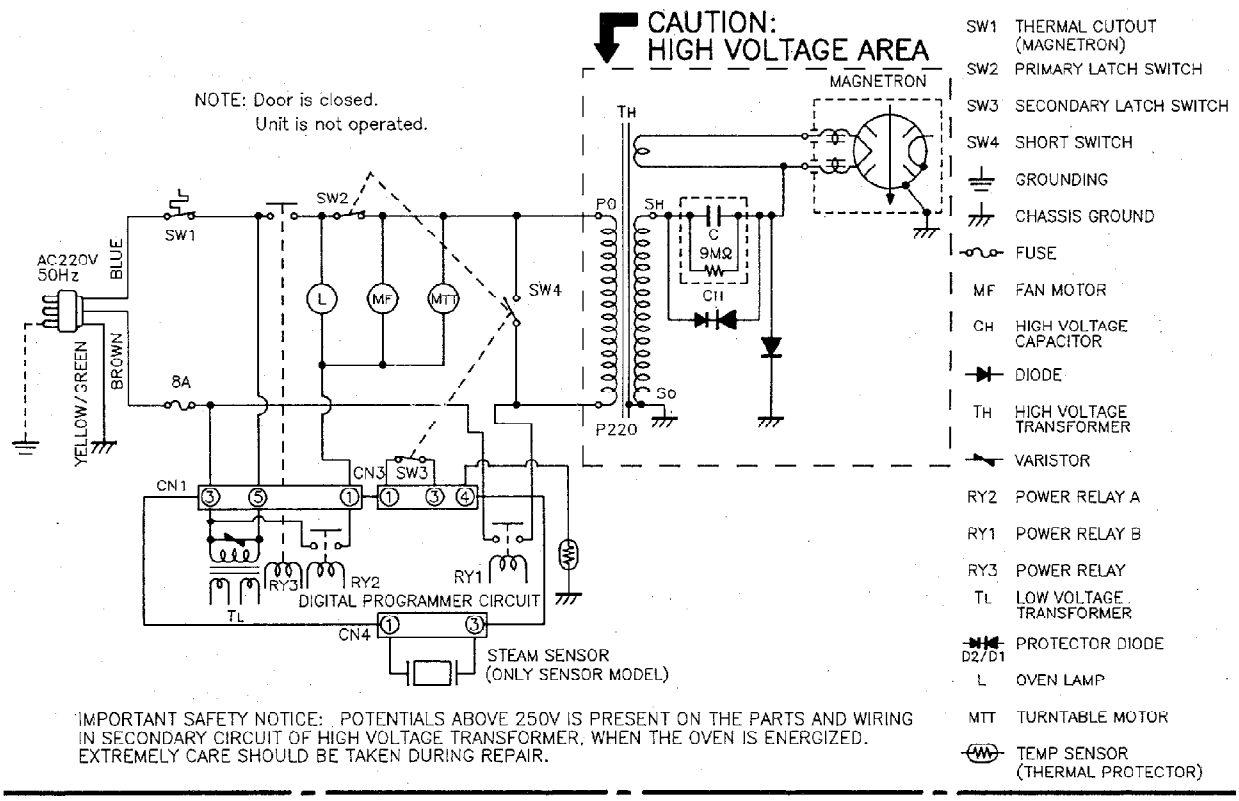
NOTE: *When replacing, check the lead wire colour as shown.
*Colours shown by ( ) indicate colours of lead wire connector housing.



SYMBOL	COLOUR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK

S-761H HNE
87-012

SCHEMATIC DIAGRAM (FOR TNE MODELS)



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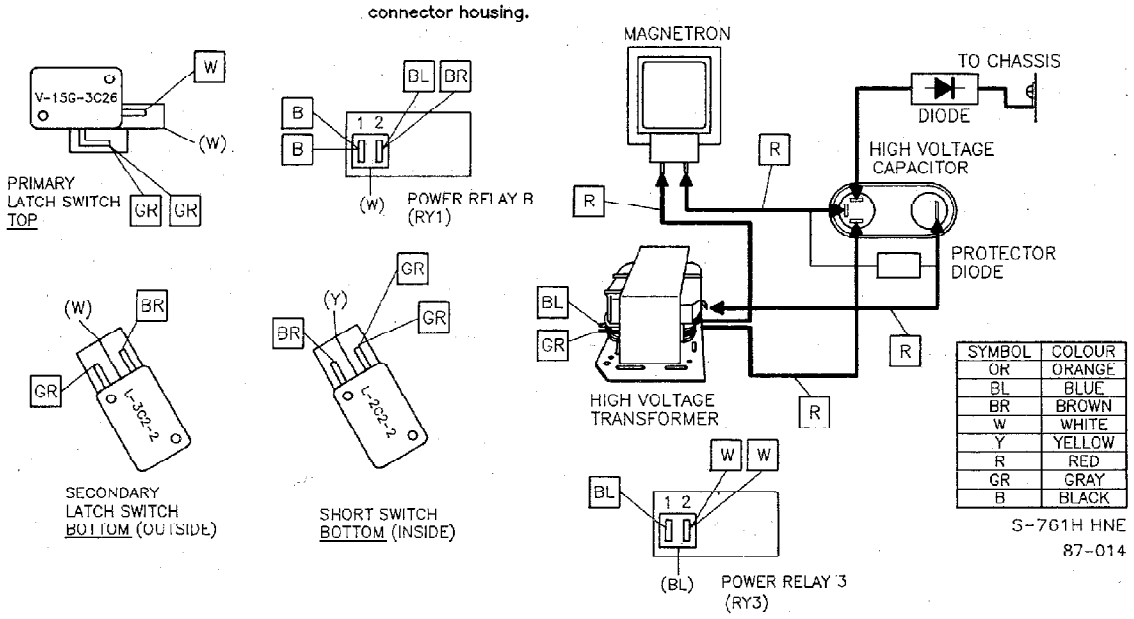
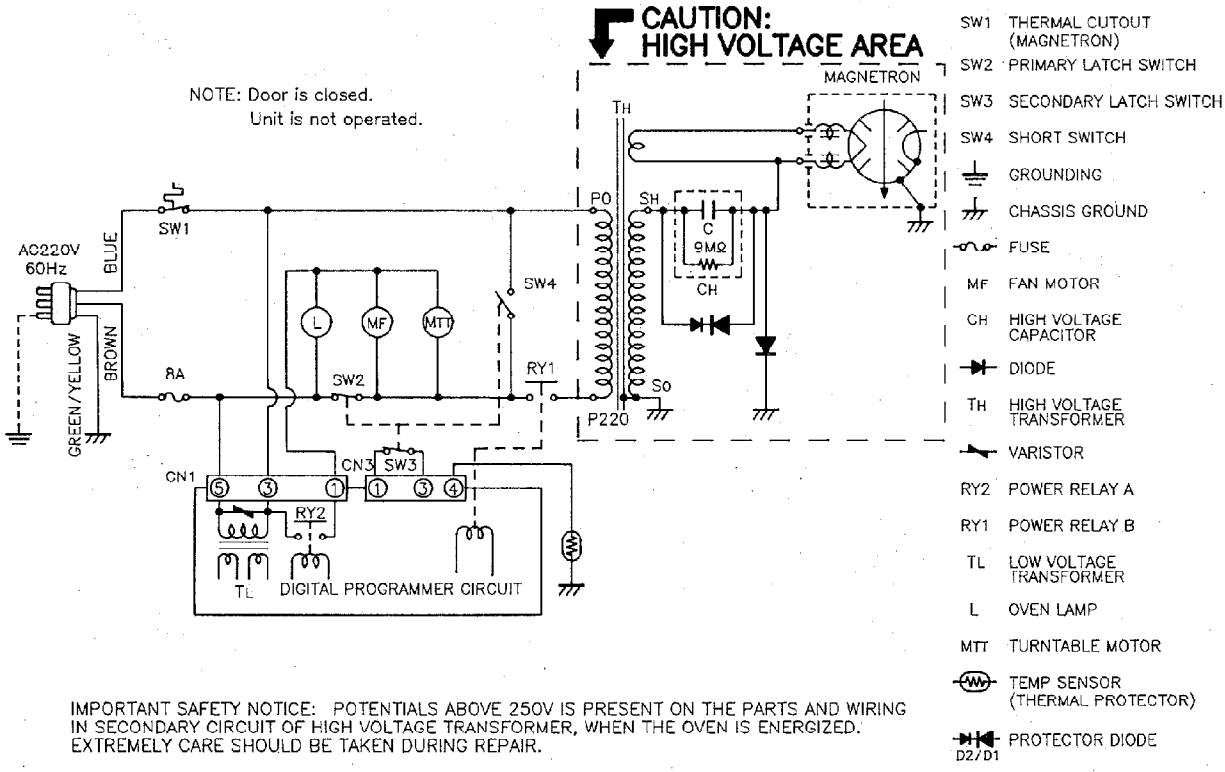


SYMBOL	COLOUR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK

S-761H HNE
87-014

SCHEMATIC DIAGRAM (FOR LNK MODELS)



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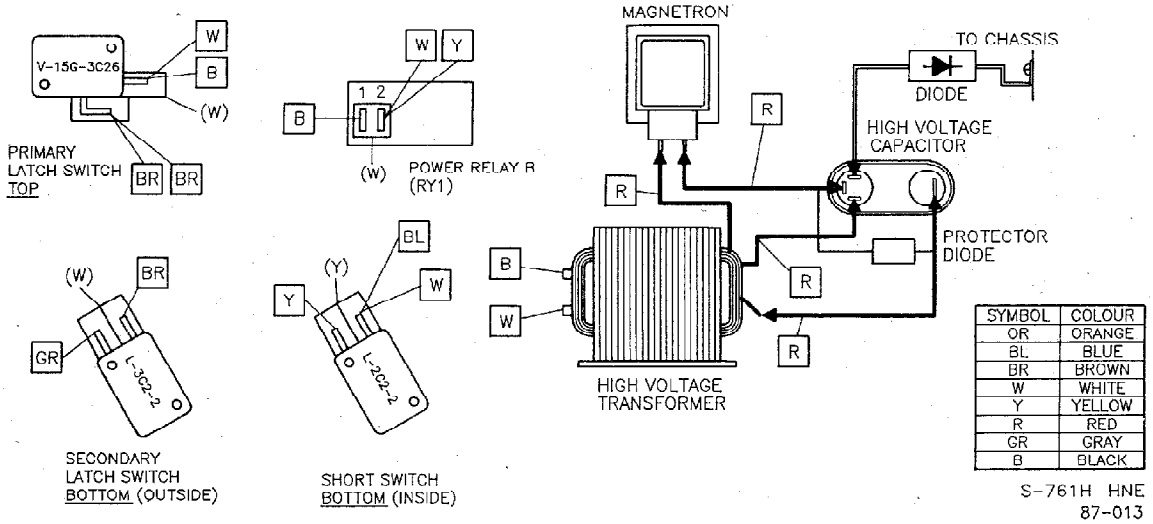


SYMBOL	COLOUR
OR	ORANGE
BL	BLUE
BR	BROWN
W	WHITE
Y	YELLOW
R	RED
GR	GRAY
B	BLACK

S-761H HNE
87-013

DESCRIPTION OF OPERATING SEQUENCE

1. Variable power cooking control

The coil of power relay B (RY1) is energized intermittently by the digital programmer circuit, when the oven is set at any power selection except for High power position. The digital programmer circuit controls the ON-OFF time of power relay B contacts in order to vary the output power of the microwave oven from "Low" to "High" power. One complete ON and OFF cycle of power relay B is 22 seconds. The relation between indications on the control panel and the output of the microwave oven is as shown in table.

NOTE: The ON/OFF time ratio does not correspond with the percentage of microwave power since approximately 2 seconds are required for heating of magnetron filament.

POWER SETTING	OUTPUT POWER(%) APPROX.	ON-OFF TIME OF POWER RELAY B (RY1)	
		ON(SEC)	OFF(SEC)
HIGH	100 %	22	0
MEDIUM-HIGH	70 %	17	5
MEDIUM	55 %	13	9
MEDIUM-LOW	30 %	8	14
LOW	10 %	5	17
DEFROST	30 %	8	14

2. Auto defrost, Auto reheat, One touch menu, control

When those Auto Control feature is selected and the Start Pad is tapped:

(A) The digital programmer circuit determines the power level and cooking time to complete cooking and indicates the operating state in the display window.
Table shows the corresponding cooking times for respective serving or weight by categories.

(B) When cooking time in the display window has elapsed, the oven turns off automatically by a controll signal from the digital programmer circuit.

Auto Defrost

WEIGHT SELECTED	COOKING TIME		
	NN-7755	NN-6＊＊5	NN-5＊＊5
1.0 kg	18 min. 30 sec.	23 min. 40 sec.	24 min. 00 sec.

Reheat Bread

WEIGHT SELECTED	COOKING TIME
100g	25 sec.

One Touch Menu

CATEGORY	SELECTED WEIGHT	COOKING TIME	
		NN-6655	NN-5655/5625
Reheat Soup	2 SERV	5 min. 00 sec.	5 min. 30 sec.
Instant Noodle	1 SERV	4 min. 00 sec.	4 min. 00 sec.

3. One touch cooking (Auto sensor cooking)

Auto sensor cooking is a revolutionary way to cook by microwave without setting a power level or selecting a time.
All that is necessary is to select an Auto Sensor Program before starting to cook.

Understanding Auto Sensor Cooking

As a food cooks, a certain amount of steam is produced. If the food is covered, this steam builds up and eventually escapes from the container. In Auto Sensor Cooking, a carefully designed instrument, called the steam sensor element, senses this escape of steam. Then, based upon the Auto Sensor Program selected, the unit will automatically determine the correct power level and the proper length of time it will take to cook the food.

NOTE: Auto Sensor Cooking is successful with the foods and recipes found in the Auto Sensor Cooking Guide. Because of the vast differences in food composition, items not mentioned in the Cooking Guide should be prepared in the microwave oven using power select and time features. Please consult Variable Power Microwave Cookbook for procedures.

Explanation of the Auto Sensor Cooking process

1) During the first 10 second period there is no microwave activity, and when calculating the T2 time by using the formula below make sure this 10 seconds is subtracted from the T1 time. In other words T1 time starts at the end of the 10 second period.
2) **T1 time**·····The total amount of time it takes the microwave oven to switch to T2 time after the 10 second period.
3) **T2 time**·····When the steam escapes from the cooking container placed in the oven, the steam sensor detects it and the microprocessor calculates the balance of cooking time. This T2 time is then shown in the display and begins counting down.

Balance of cooking time (T2 time)

The balance of cooking time which is called T2 time, can be calculated by the following formula.

T2 time (in sec.) =T1 time × K factor

NOTE: Remember, the T1 time starts after the 10 second period. The coefficient K is programmed into the microprocessor memory and they are listed in the following tables along with the P1 and P2 powers.

NOTE: When "More" or "Less" pad is selected, the K factor varies resulting in T2 time to be increased or decreased.

Example of calculating the T2 time

Example 1: If the T1 time is measured to be 2 minutes and 40 seconds after the 10 second period, and the Auto program selected is Vegetables:

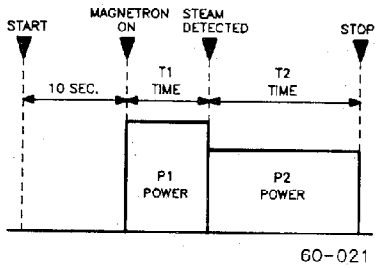
T2 = T1 × K
= 2 min. and 40 sec. × 0.1
= 160 sec. × 0.1
= 16 sec.

4. Auto Sensor Reheat

Auto Sensor Reheat is a quick and easy way to reheat refrigerator and room temperature foods.
Simply press the reheat pad. There is no need to select power level and cooking time.

NOTE: The Auto Sensor Reheat process is same as Auto Sensor Cooking process.

AUTO SENSOR COOKING/REHEAT PROCESS



One Touch Cooking (Auto Sensor Cook)

Category	P1 Power	P2 Power	K factor Standard
Vegetables	HIGH	LOW	0.1

Sensor Reheat

Category	P1 Power	P2 Power	K factor Standard
Sensor Reheat	HIGH	M.HIGH	0.1

CAUTIONS TO BE OBSERVED WHEN TROUBLESHOOTING

Unlike many other appliances, the microwave oven is high-voltage, high-current equipment. Though it is free from danger in ordinary use, extreme care should be taken during repair.

CAUTION

Servicemen should remove their watches whenever working close to or replacing the magnetron.

1. Check the grounding

Do not operate on a 2-wire extension cord. The microwave oven is designed to be used when grounded. It is imperative, therefore, to make sure it is grounded properly before beginning repair work.

2. Warning about the electric charge in the high voltage capacitor

For about 30 seconds after the oven is turned off, an electric charge remains in the high voltage capacitor.
When replacing or checking parts, remove the power plug from the outlet and short the terminal of the high voltage capacitor (terminal of lead wire from diode) to chassis ground with an insulated handle screwdriver to discharge.

WARNING

There is high-voltage present, with high-current capabilities in the circuits of the high voltage winding and filament winding of the high voltage transformer. It is extremely dangerous to work on or near these circuits with oven energized.
DO NOT measure the voltage in the high voltage circuit including filament voltage of magnetron.

WARNING

Never touch any circuit wiring with your hand nor with an insulated tool during operation.

3. When parts must be replaced, remove the power plug from the outlet.

4. When the 8A 250V fuse is blown due to the operation of short switch:

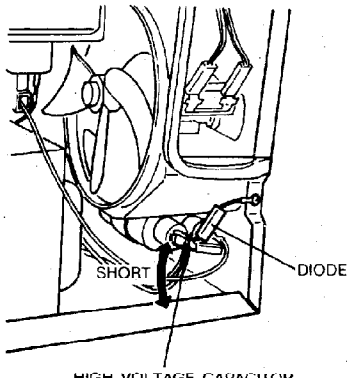
WARNING

When the 8A 250V. fuse is blown due to the operation of short switch, you must replace Primary latch switch and short switch. Also replace power relay B (RY1) when the continuity check reads shorted contacts (1-2).

(A) This is mandatory. Refer to "Adjustments and Measurement" for these switches.
(B) When replacing the fuse, confirm that it has the appropriate rating for these models.
(C) When replacing faulty switches, be sure mounting tabs are not bent, broken or otherwise deficient in their ability to hold the switches.

5. Avoid inserting nails, wire, etc. through any holes in the unit during operation.

Never insert a wire, nail or any other metal object through the lamp holes on the cavity or any other holes or gaps, because such objects may work as an antenna and cause microwave leakage.



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Touch chassis side first then short to the high voltage capacitor terminal.

6. Confirm after repair

(A) After repair or replacement of parts, make sure that the screws of the oven, etc. are neither loose nor missing.
Microwaves might leak if screws are not properly tightened.
(B) Make sure that all electrical connections are tight before inserting the plug into the wall outlet.

CAUTION
MICROWAVE RADIATION

DO NOT BECOME EXPOSED TO RADIATION FROM THE MICROWAVE GENERATOR OR OTHER PARTS CONDUCTING MICROWAVE ENERGY.

IMPORTANT NOTICE

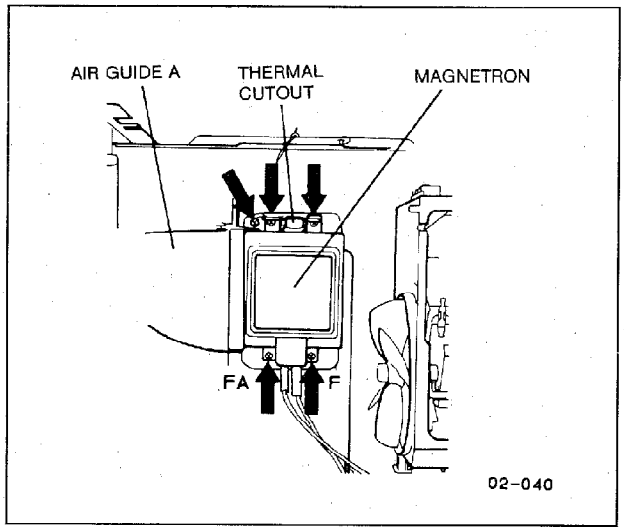
1. The following components have potentials above 250V while the appliance is operated.
   ※ Magnetron
   ※ High voltage transformer
   ※ High voltage diode
   ※ High voltage capacitor
   ※ Protector diode
   Pay special attention on these portions.
2. When the appliance is operated with the door hinge or magnetron fixed incorrectly, the microwave leakage can reach more than 5mW/cm². After repair or exchange, it is very important to check if magnetron and the door hinge is correctly fixed.

DISASSEMBLY AND PARTS REPLACEMENT PROCEDURE

1. Magnetron

(A) Discharge the high voltage capacitor.
(B) Remove 2 screws holding magnetron thermal cutout.
(C) Remove 1 screw holding air guide A.
(D) Disconnect 2 high voltage lead wires from magnetron filament terminals.
(E) Remove 4 screws holding the magnetron.
NOTE: After replacement of the magnetron, tighten mounting screws properly making sure there is no gap between the waveguide and the magnetron to prevent microwave leakage.

CAUTION
When replacing the magnetron, be sure the antenna gasket is in place.



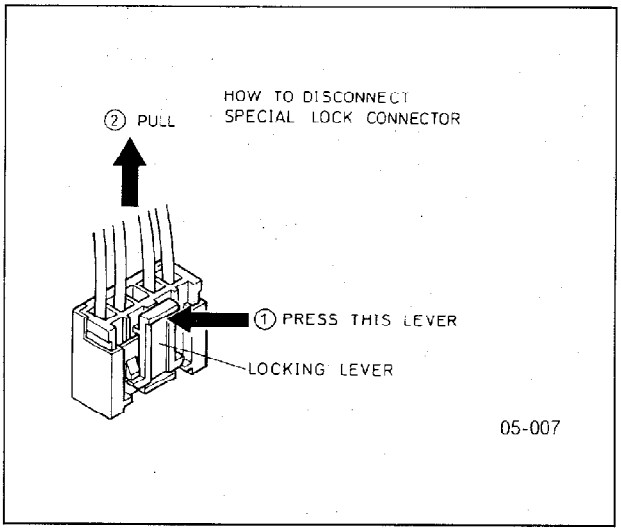
2. Digital programmer circuit (DPC) and membrane key board.

NOTE: Be sure to ground any static electric charge built up on your body, before handling the DPC.
(A) Disconnect all connectors from D.P.C.
(B) Remove 2 screws holding escutcheon base and slide the escutcheon base upward slightly.
(C) Release CN2 connector's lock of DPC by pushing both levers to inside and pull them upward, and remove flat cable of membrane key board.
(D) Remove 2 screws holding DPC.

To replace membrane key board

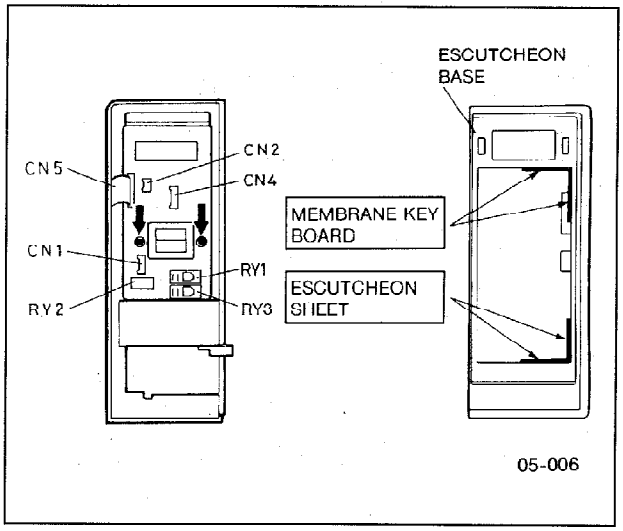
(E) Remove escutcheon bracket from escutcheon base by freeing 4 catch hooks on the escutcheon base.
(F) Peel off the tub of membrane key board from escutcheon base.
(G) Peel off the display filter from escutcheon base.
(H) Push the upper part of key board (display window portion) from back of escutcheon base and peel off escutcheon sheet and membrane key board completely from escutcheon base.

NOTE: 1. The membrane key board is attached to the escutcheon base with double faced adhesive tape.
Therefore, applying hot air such as using of hair dryer is recommended for smoother removal.
2. When installing new membrane key board, make sure that the surface of escutcheon base is cleaned sufficiently so that any problems (shorted contacts or uneven surface) can be avoided.
3. Alignment position of membrane key board and escutcheon sheet are as follows (See figure);
Membrane key board: Right and upper edges
Escutcheon sheet: Right and lower edges



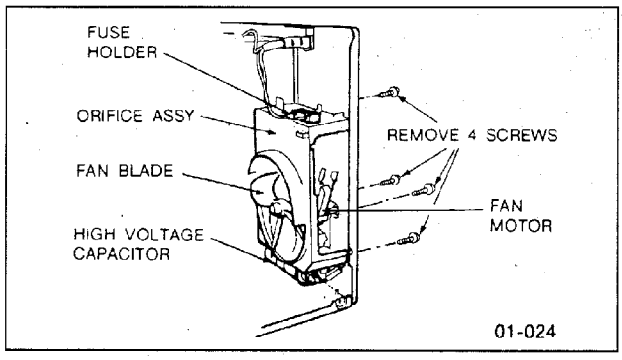
3. Low voltage transformer and/or power relays

NOTE: Be sure to ground any static electric charge built up on your body before handling the DPC.
(A) Using solder wick or a desoldering tool and 30W soldering iron, carefully remove all solder from the terminal pins of the low voltage transformer and/or power relays.
NOTE: Do not use a soldering iron or desoldering tool of more than 30 watts on DPC contacts.
(B) With all the terminal pins cleaned and separated from DPC contacts, remove the defective transformer/power relays and install new transformer/power relays making sure all terminal pins are inserted completely. Resolder all terminal contacts carefully.



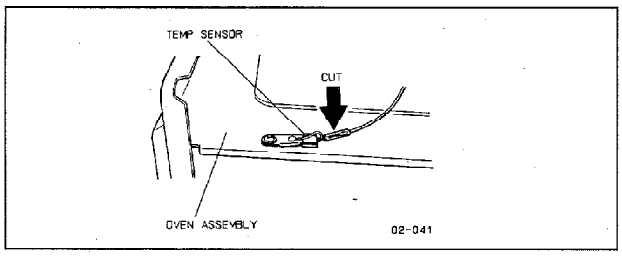
4. Fan motor

(A) Disconnect 2 lead wires from fan motor terminals.
(B) Disconnect 2 lead wires from fuse holder terminals.
(C) Disconnect 4 high voltage lead wires from high voltage capacitor terminals.
(D) Remove 4 screws holding fan motor and orifice assy and detach the orifice assy with fan motor from oven assy.
(E) Remove fan blade from the fan motor shaft by pulling it straight out.
(F) Separate the fan motor from the orifice assy by freeing 2 catch hooks on the orifice assy.



5. Temp sensor (thermal protector)

(A) Cut lead wire at the top of sensor terminals.
(B) Remove 1 screw holding the temp sensor and replace with new one.
(C) Solder the lead wires securely to the sensor terminals.

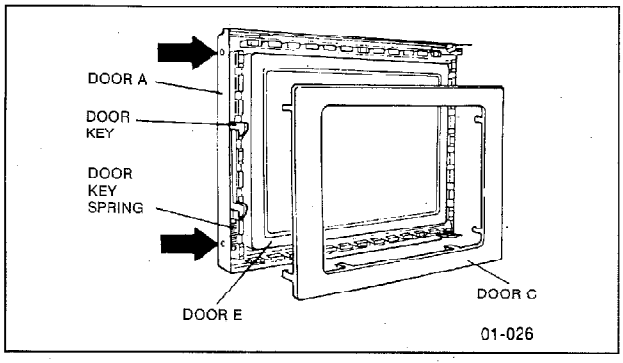


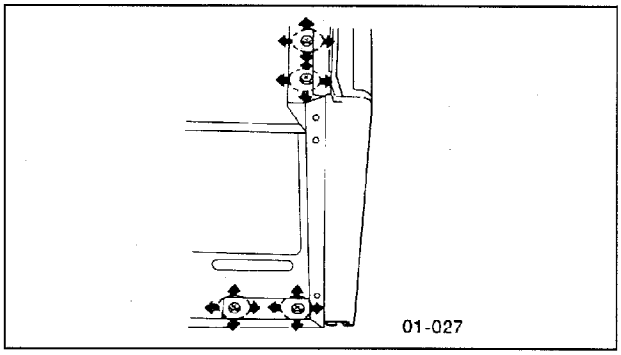
6. Door assembly

(A) Open the door and remove door C from door E by carefully pulling outward starting from upper right hand corner.
(B) Remove door key and door key spring.
(C) Remove 2 or 3 screws holding side and bottom frames of door A.
(D) Separate the door A from the door E by freeing catch hooks on the door A using a flat screwdriver.

After replacement of the defective component parts of the door, reassemble it and follow the instructions below for proper installation and adjustment so as to prevent an excessive microwave leakage.

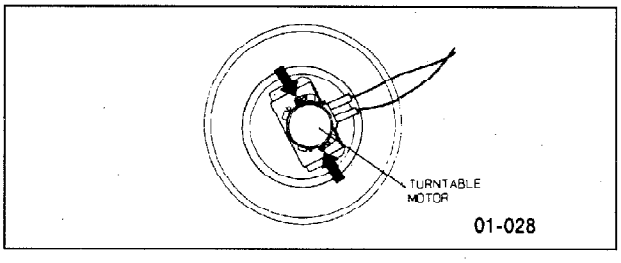
(1) When mounting the door to the oven, be sure to adjust the door parallel to the bottom line of the oven face plate by moving the upper hinge and lower hinge in the direction necessary for proper alignment.
(2) Adjust so that the door has no play between the inner door surface and oven front surface. If the door assembly is not mounted properly, microwave may leak from the clearance between the door and oven.





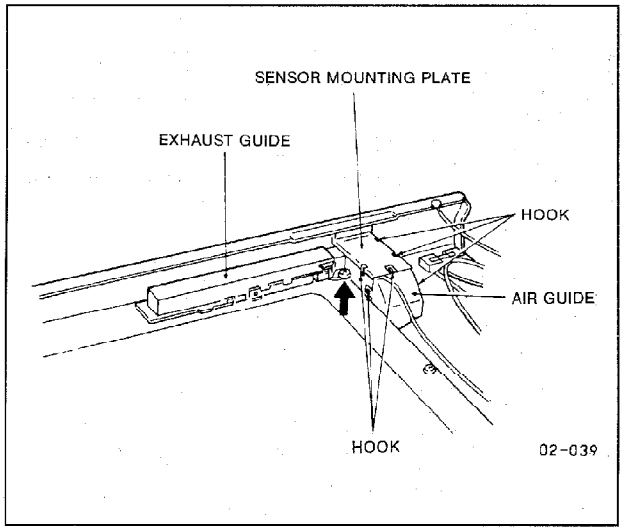
7. Turntable motor

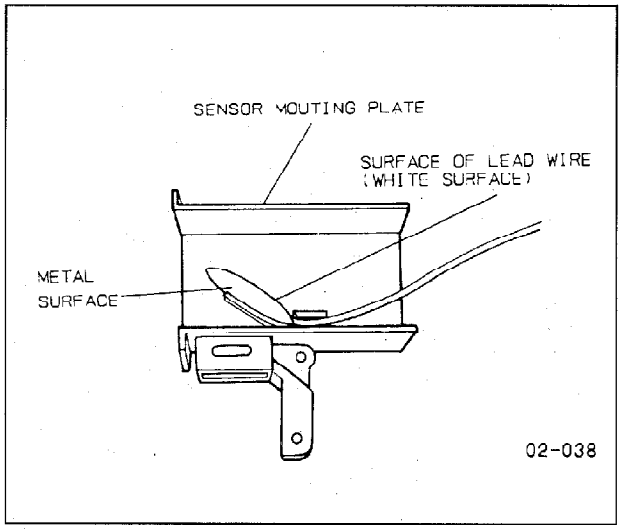
(A) Remove 2 screws holding motor cover.
(B) Disconnect 2 lead wires from turntable motor.
(C) Remove 2 screws holding turntable motor.



8. Steam sensor

(A) Remove 1 screw holding steam sensor unit.
(B) Disconnect CN4 connector from digital programmer circuit board.
(C) Remove exhaust guide from steam sensor unit.
(D) Remove catch hooks on sensor mounting plate and air guide.
(E) Remove steam sensor from sensor mounting plate.
NOTE: When installing the steam sensor, make sure that the direction c
steam sensor is as shown In figure.





COMPONENT TEST PROCEDURE

CAUTION

1. High voltage is present at the high voltage terminal of the high voltage transformer during any cook cycle.
2. It is neither necessary nor advisable to attempt measurement of the high voltage.
3. Before touching any oven components, or wiring, always unplug the oven from its power source and discharge the high voltage capacitor.

1. Primary Latch Switch, Secondary (Secondary Latch Switch and Power relay B) Interlocks.

(A) Unplug lead connectors to Power Relay B and verify continuity of the power relay B 1-2 terminals.
(B) Unplug lead connectors to Primary Latch Switch and Secondary Latch Switch.
(C) Test the continuity of switches at door opened and closed positions with ohm meter (low scale).
Normal continuity readings should be as follows.

	Door Opened	Door Closed
Primary Latch Switch	∞ Ω (open)	0 Ω (close)
Secondary Latch Switch	∞ Ω (open)	0 Ω (close)
Power Relay B	∞ Ω (open)	∞ Ω (open)

2. Short Switch & Monitor Circuit

(A) Unplug lead wires from H.V. transformer primary terminals.
(B) Connect test probes of ohm meter to the disconnected leads which were connected to H.V. Transformer.
(C) Test the continuity of short switch with door opened and closed positions using lowest scale of the ohm meter.
Normal continuity readings should be as follows.

Door closed	Door opened
∞ Ω	0 Ω

3. High voltage transformer

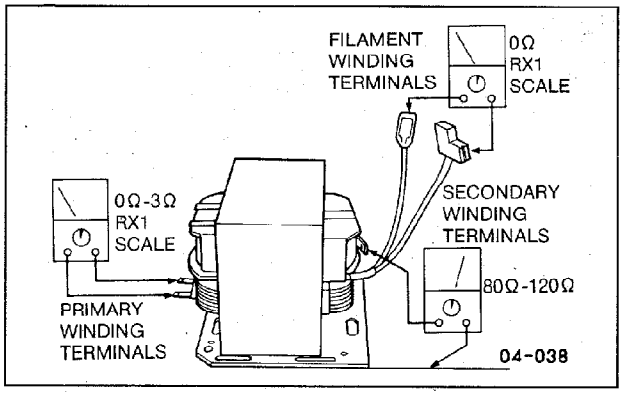
(A) Remove connections from the transformer terminals and check continuity.
(B) Normal (cold) resistance readings should be as follows:
Secondary winding ····· Approx. 80Ω ~ 120Ω
Filament winding ····· Approx. 0Ω
Primary winding ····· Approx. 0Ω ~ 3Ω

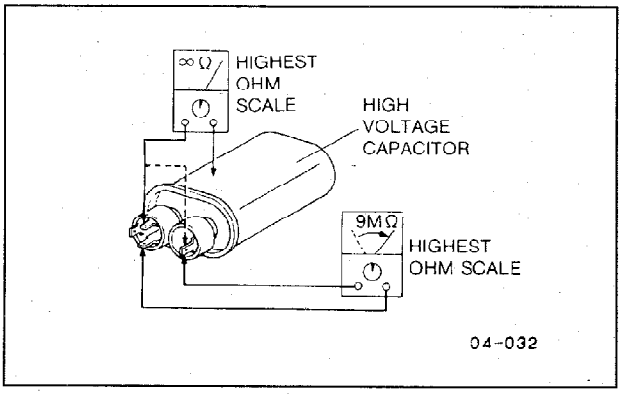
4. High voltage capacitor

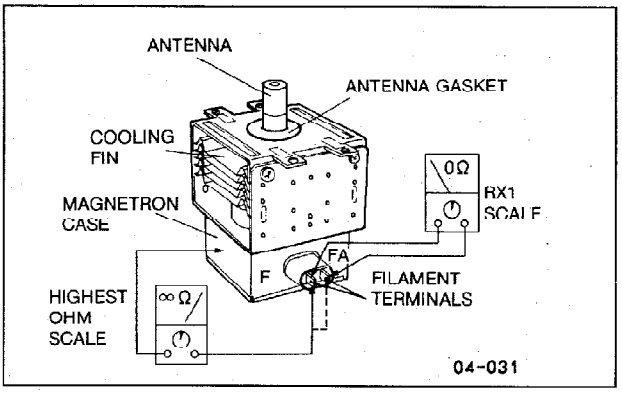
(A) Check continuity of capacitor with meter on highest OHM scale.
(B) A normal capacitor will show continuity for a short time, and then indicate 9MΩ once the capacitor is charged.
(C) A shorted capacitor will show continuous continuity.
(D) An open capacitor will show constant 9MΩ.
(E) Resistance between each terminal and chassis should be infinite.

5. Magnetron

Continuity checks can only indicate an open filament or a shorted magnetron. To diagnose for an open filament or shorted magnetron.
(A) Isolate magnetron from the circuit by disconnecting the leads.
(B) A continuity check across magnetron filament terminals should indicate one ohm or less.
(C) A continuity check between each filament terminal and magnetron case should read open.

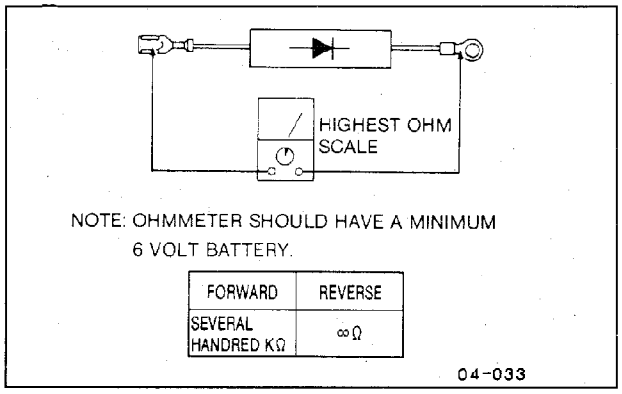






6. Diode

(A) Isolate the diode from the circuit by disconnecting the leads.
(B) With the ohmmeter set on the highest resistance scale, measure the resistance across the diode terminals. Reverse the meter leads and again observe the resistance reading. Meter with 6V, 9V or higher voltage batteries should be used to check the front-to-back resistance of the diode, otherwise an infinite resistance may be read in both directions.
A normal diode's resistance will be infinite in one direction and several hundred kΩ in the other direction.

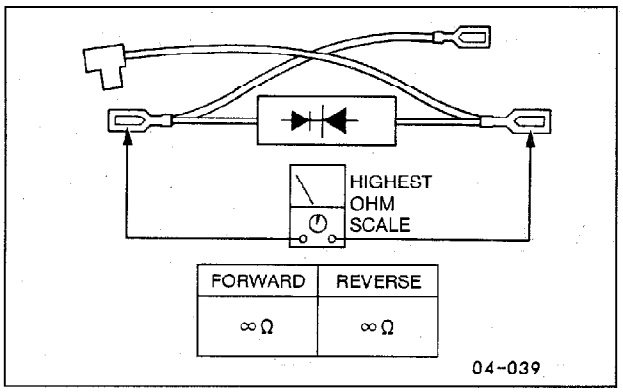


7. Membrane key board (Membrane switch assembly)

Check continuity between switch terminals, by tapping an appropriate pad on the key board. The contacts assignment of the respective pads on the key board is as shown in digital programmer circuit.

8. Protector diode

(A) Isolate the protector diode assembly from the circuit by disconnecting its leads.
(B) With the ohmmeter set on the highest resistance scale, measure the resistance across the protector diode terminals.
Reverse the meter leads and again observe the resistance reading.
A normal protector diode's resistance will be infinite in both directions.
It is faulty if it shows continuity in one or both directions.



9. Steam Sensor and digital programmer circuit

CAUTION

Do not touch any parts of the circuitry on the digital programmer circuit since static electric discharge may damage this control panel.
Always ground yourself while working on this panel to discharge any static charge built up on your body.

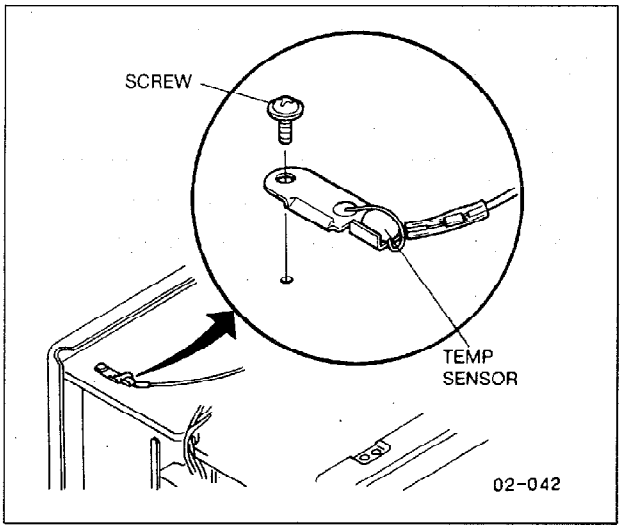
In order to determine if the steam sensor function of the digital programmer circuit is in working order or not, do the following test.
1) Place a water load (150 cc) in the oven.
2) Tap Sensor Reheat pad.
3) Tap Start Pad.
4) Steam Sensor detects steam about 1 minute 30 seconds to 4 minutes after the Start Pad is tapped.
5) T1 time cooking automatically switch to remaining time cooking. (T2)
6) The remaining of cooking time (T2) appears in display window. If the following cooking time appear Steam Sensor function is normal.

T1 TIME	T2 TIME (Remaining cooking time)
1Min. 30 sec. ~4 Min.	8 Sec. ~ 23 Sec.

10. Temp sensor (Thermal protector)

A temp sensor is mounted on top of the oven cavity at the left side. Its purpose is to automatically shut off the oven in case the cavity overheats for any reason.
The thermal protector will operate at 257°F (125°C).
The device is connected to the DPC on touch control models. When the thermal protector exceeds its temperature it will turn off the power to oven cavity and display wil go to reset mode.
The cooking program can be reset after cool-down.

THERMISTOR RESISTANCE VALUE
30K-120K at 10°C-30°C (50°F-86°F)



MEASUREMENTS AND ADJUSTMENTS

1. Adjustment of Primary latch switch, Secondary latch switch and short switch

(A) When mounting Primary latch switch, Secondary latch switch and short switch to door hook assembly, mount the Primary latch switch, the Secondary latch switch and the short switch to the door hook assembly as shown in table.

NOTE: No specific adjustment during installation of Primary latch switch, Secondary latch switch and short switch to the door hook is necessary.

(B) When mounting the door hook assembly to the oven assembly, adjust the door hook assembly by moving it in the direction of arrow in table so that the oven door will not have any play in it. Check for play in the door by pulling the door assembly. Make sure that the latch keys move smoothly after adjustment is completed. Completely tighten the screws holding the door hook assembly to the oven assembly.

(C) Reconnect the short switch and check the continuity of the monitor circuit and all latch switches again by following the components test procedures.

2. Measurement of microwave output

The output power of magnetron can be determined by performing IEC standard test procedures. However, due to the complexity of IEC test procedures, it is recommended to test the magnetron using the simple method outlined below.

Necessary Equipment:

*1 liter beaker *Glass thermometer

*Wrist watch or stopwatch

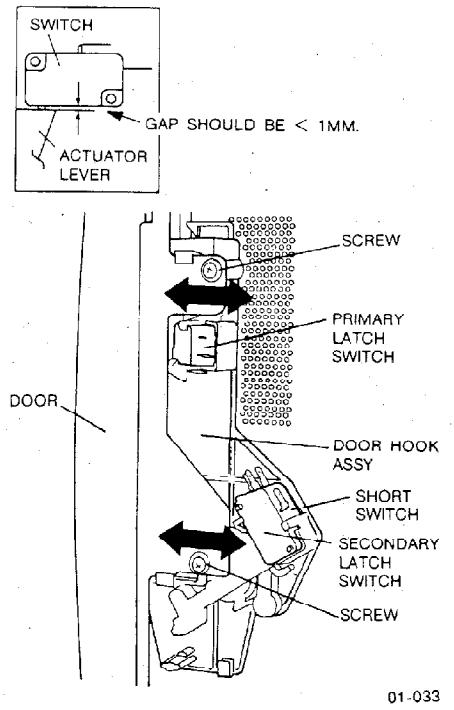
NOTE: Check the line voltage under load. Low voltage will lower the magnetron output. Take the temperature readings and heating time as accurate as possible.

(A) Fill the beaker with exactly one liter of tap water. Stir the water using the thermometer and record the beaker's temperature (recorded as T1).

(B) Place the beaker on the center of glass cook plate. Set the oven for High power and heat it for exactly one minute.

(C) Stir the water again and read the temperature of the beaker (recorded as T2).

(D) The normal temperature rise at High power position for each models is as shown in table.



Please confirm that the gap between the switch housing and switch actuator levers is no more than 1.0mm when the door is closed.

TABLE (1 ℓ -1min. test)

RATED OUTPUT	TEMPERATURE RISE
800W (IEC-705)	Min. 7.0°C
900W (IEC-705)	Min. 8.0°C

TROUBLESHOOTING GUIDE

CAUTION

1. Check grounding before checking for trouble.
2. Be careful of the high voltage circuit.
3. Discharge high voltage capacitor.
4. When checking the continuity of the switches or the high voltage transformer, disconnect one lead wire from these parts and then check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.
   When disconnecting a plastic connector from a terminal, you must hold the plastic connector instead of the lead wire and then disconnect it, otherwise lead wire may be open or the connector cannot by removed.
5. Do not touch any parts of the circuitry on the digital programmer circuit, since static electric discharge may damage this control panel.
   Always touch yourself to ground while working on this panel to discharge any static charge in your body.
6. A 220/230/240V AC is present at the shaded area ▒▒ of the digital programmer circuit (Terminals of power relay's and primary circuit of low voltage transformer). When troubleshooting, be cautious of possible electrical shock hazard.

First of all operate the microwave oven following the correct operating procedures in order to find the exact cause of any trouble.

[TROUBLE 1] Oven does not start cooking

	SYMPTOM	CAUSE	CORRECTIONS
1.	Oven is dead. Fuse is OK. No display and no operation at all.	1. Open or loose lead wire harness	
		2. Open thermal cutout (Magnetron)	Check fan motor when thermal cutout is defective.
		3. Open low voltage transformer 4. Defective DPC	
2.	Oven does not accept key input (Program)	1. Key input is not in-sequence	Refer to operation procedure.
		2. Open or loose connection of membrane key pad to DPC (Flat cable) 3. Shorted or open membrane key board	
		4. Defective DPC	Refer to DPC troubleshooting.
3.	Oven lamp and fan motor turn on when oven is plugged in with door closed.	1. Misalignment or loose wiring of secondary latch switch.	Adjust door and latch switches.
		2. Defective secondary latch switch	
4.	Timer starts count down but no microwave oscillation.	1. Off-alignment of latch switches	Adjust door and latch switches.
		2. Defective primary latch switch 3. Open or loose wiring of power relay (RY1, RY3) 4. Defective power relay (RY1, RY3). 5. Defective DPC. 6. Open or loose connection of high voltage circuit especially magnetron filament circuit NOTE: Large contact resistance will bring lower magnetron filament voltage and causing magnetron to lower output and/or intermittent oscillation.	RY3: ONLY TNE MODELS
		7. Defective high voltage component H.V. Transformer H.V. Capacitor H.V. Diode Magnetron	Check high voltage component according to component test procedure and replace if it is defective.

[TROUBLE 2] Fuse is blown

	SYMPTOM	CAUSE	CORRECTIONS
1.	8A fuse is blown.	1. Shorted lead wire harness	
		2. Defective short switch	Check adjustment of latch switches and door
		3. Defective primary latch switch	
		4. Shorted H.V. Capacitor	
		5. Shorted H.V. Diode	Replace H.V. Diode and protector diode (*NOTE)
		6. Defective magnetron	Replace magnetron and protector diode (*NOTE)
		7. Shorted H.V. Transformer	Replace H.V.Transformer and protector diode (*NOTE)
		8. Shorted Protector diode	
		※NOTE: Be sure to replace protector diode together with those H.V.Components. In this case, only D2 of protector diode may be shorted due to faulty H.V.Component. Therefore, if protector diode is not replaced together, high voltage transformer will be damaged (over heated).	

[TROUBLE 3] Other troubles

	SYMPTOM	CAUSE	CORRECTIONS
1.	Microwave output is low. Oven takes longer time to cook food.	1. Decrease in power source voltage	Consult electrician
		2. Open or loose wiring of magnetron filament circuit. (Intermittent oscillation)	
		3. Aging change of magnetron	
2.	Fan motor and oven lamp turn on when door is opened.	1. Shorted primary latch switch	
3.	Oven does not operate and return to plugged in mode.	1. Open or loose wiring of temp sensor	Check tighten screws on escutcheon base bracket, D.P.C. board and temp sensor.
		2. Defective temp sensor	
		3. Defective DPC	Refer to DPC troubleshooting.
4.	Loud buzzing noise can be heard.	1. Loose fan and fan motor	
		2. Loose screws on H.V. Transformer	
5.	Oven stops operation during cooking	1. Off-alignment of latch switches	Adjust door and latch switches.
		2. Open or loose wiring of primary and secondary latch switch	
		3. Operation of thermal cutout (Magnetron)	
6.	Turntable motor does not rotate.	1. Open or loose wiring of turntable motor	
		2. Defective turntable motor	
7.	Oven return to plugged in mode after 10 seconds elapsed in the auto sensor cooking mode.	1. Open or loose wiring of sensor terminals from DPC.	Sensor Models
		2. Open steam sensor.	
		3. Defective D.P.C.	

Trouble related to Digital Programmer Circuit

SYMPTOM	STEP	CHECK	RESULT	CAUSE/CORRECTIONS
No display when oven is first plugged in	1	Fuse pattern of DPC	Normal	STEP 2
			Open (NOTE)	Shorted circuit of ZNR, L. V. T., Oven Lamp etc. Replace DPC
	2	Low voltage transformer (LVT) secondary voltage	Abnormal 0V	LVT
			Normal	→ Step 3
	3	IC-1 pin 1 voltage (Emitter of Q1)	Abnormal	ZD1,Q1
			Normal = 5V	→ Step 4
	4	IC-1 pin 27 voltage (14 pin of IC-2)	Abnormal	IC-2
			Normal	→ IC-1, CX1, DISPLAY

NOTE

Procedure of fuse pattern repairing is as follows:

1. When the fuse pattern (PF2) opens.

(1) Remove jumper wire (PF1).

(2) Insert the removed jumper wire (PF1) to "(PF2)" position and solder it. If both "PF1" and "PF2" fuse pattern are open, please replace DPC.

2. When the fuse pattern (PF4) opens.

(1) Remove jumper wire (PF3).

(2) Insert the removed jumper wire (PF3) to "(PF4)" position and solder it. If both "PF4" and "PF3" fuse pattern are open, please replace DPC.

NOTE:* At the time of these repairs, make visual inspection of the varistor for burning damage and examine the transformer with tester for the presence of layer short-circuit (check primary coil resistance).
If any abnormal condition is detected, replace the defective parts.

No key input	1	Membrane switch continuity	Abnormal	Membrane switch
			Normal	IC-1
No beep sound	1	IC-1 pin 23 voltage	Abnormal	IC-1
			Normal	BZ, Q6
Power relay A(RY-2) does not turn on even though the program has been set and the start pad is tapped	1	IC-1 pin 8 voltage while operation	Abnormal	IC-1
			Normal = 5V	→ Step 2
	2	short circuit between pin 1 and pin 12 of IC-2	Still not turn on	RY-2
			RY-2 turns on	IC-2
No microwave oscillation at any power setting	1	IC-1 pin 5 and pin 15 voltages while operation at high power	Abnormal	IC-1
			Normal 5---5V, 15---5V	→ Step 2
	2	Q2 transistor	Abnormal	Q2
			Normal	IC-2, RY-1
TNE MODELS Power relay (RY3) does not turn on	1	IC-1 pin 8 voltage while operation	Abnormal	IC-1
			Normal = 5V	→ Step 2
		Q4 transistor	Abnormal	Q4
			Normal	RY-3
Dark or unclear display	1	Replace display and check operation	Normal	DISPLAY
			Abnormal	IC-1
Missing or lighting of unnecessary segment	1	Replace IC-1 and check operation	Normal	IC-1
			Abnormal	DISPLAY

TO BE CONTINUED FOR AUTO SENSOR MODELS				
Auto Sensor cooking does not operate normally. (Steam sensor does not detect steam from foods.)	1	Steam sensor terminal voltage by using high impedance tester (20kΩ/V), when breathe on metal surface of sensor	Abnormal = 0V	Steam sensor
			Normal ≧ 10~30mV	IC-1, IC-3

HOW TO CHECK THE SEMICONDUCTORS USING AN OHM METER

Diode

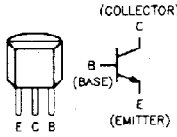
	FORWARD	REVERSE
A-K	SMALL	∞

Transistor

NPN Transistor

2SC·····

2SD·····

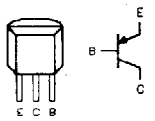


	FORWARD	REVERSE
B-E	SMALL	∞
B-C	SMALL	∞
C-E	∞	∞

PNP Transistor

2SA·····

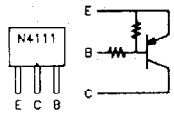
2SB·····



	FORWARD	REVERSE
E-B	SMALL	∞
C-B	SMALL	∞
C-E	∞	∞

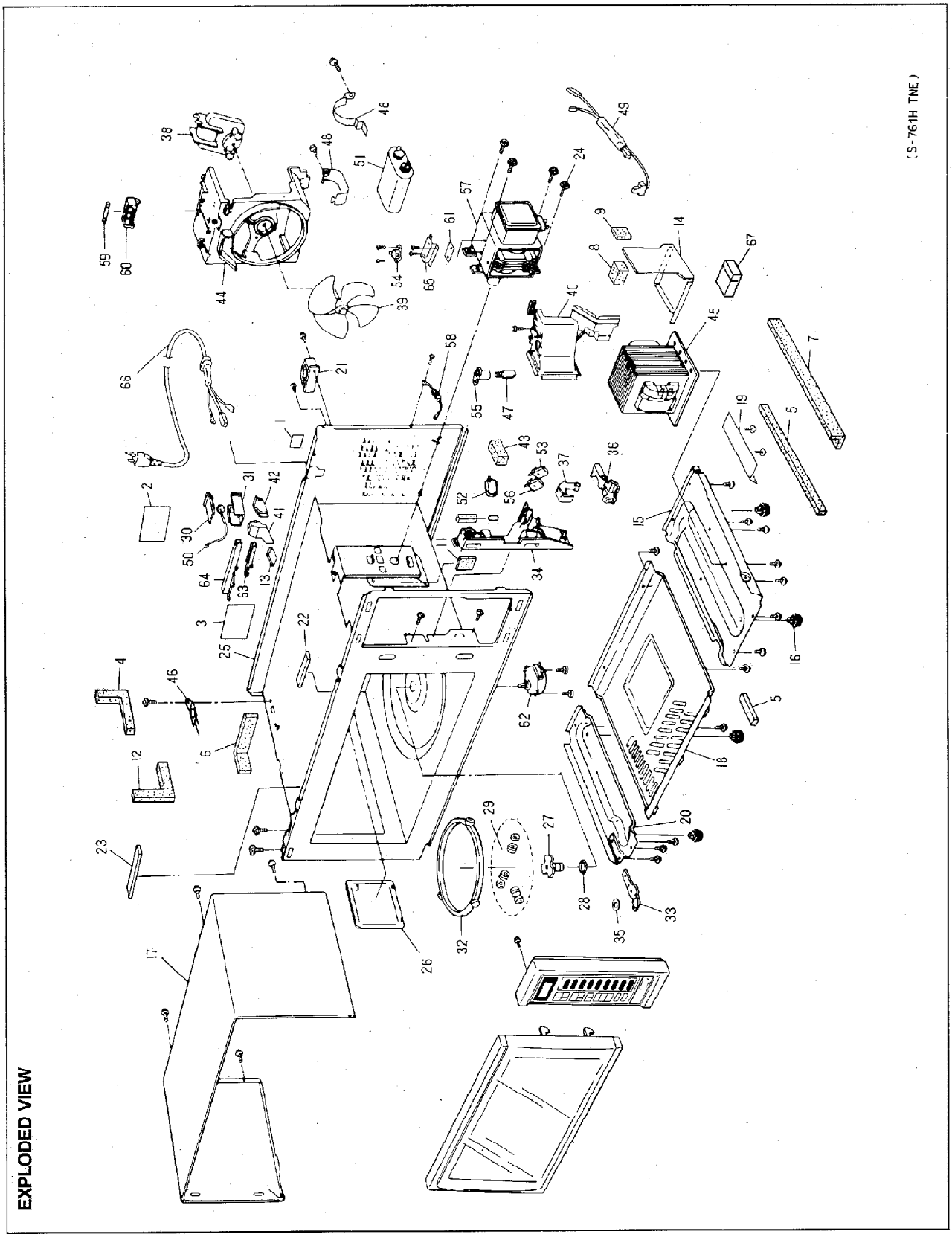
Digital Transistor

PNP Transistor



	FORWARD	REVERSE
E-B	10kΩ~30kΩ	10kΩ~30kΩ
C-B	50kΩ~90kΩ	∞
C-E	40kΩ~80kΩ	∞

EXPLODED VIEW AND PARTS LIST



PARTS LIST

NOTE 1: When ordering replacement part(s), please use part number(s) shown in this parts list.
Do not use description of the part.

2: Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

3: Alphabet marks in Remarks columns (i.e. HNE etc.) indicate parts applicable to only specified country models as follows.

HNE: For Hong Kong, LNK: For Philippines, MKQ: For Singapore, MNQ: For Malaysia, TNE: For Thailand, Indonesia, XNE: For China.

Parts without these marks can be used for all models.

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
1		ANE00057J0XN	EARTH LABEL	1	NN-5655 TNE,NN-6655 TNE,NN-6755 TNE, NN-7755
2		A00065460JP	CAUTION LABEL	1	
3		A00065540MN	CAUTION LABEL	1	NN-5625 MKQ,NN-5655 MKQ,NN-5755 MKQ, NN-6655 MKQ,NN-6755 MKQ
4		ANE0926000AM	CUSHION RUBBER C	1	NN-7755
5		ANE000Z000AA	CUSHION RUBBER A	2	NN-5625,NN-5655 HNE/MKQ/MNQ/TNE/XNE, NN-5755,NN-7755
5		ANE000Z000AA	CUSHION RUBBER A	1	NN-5655 LNK,NN-6655,NN-6755
6		ANE0902000DH	CUSHION RUBBER A	1	NN-6655,NN-6755,NN-7755
7		ANE0921000DN	CUSHION RUBBER A	1	NN-6655,NN-6755
7		ANE0902000DR	CUSHION RUBBER A	1	NN-7755
8		ANE10496P0GS	CUSHION RUBBER	1	NN-6655 HNE/TNE,NN-6755 HNE/TNE, NN-7755 TNE
9		ANE0902000ED	CUSHION RUBBER A	1	NN-5625 HNE/MKQ/MNQ, NN-5655 HNE/MNQ/MKQ/TNE/XNE, NN-5755 HNE/MNQ/MKQ
10		ANE0904000BD	CUSHION RUBBER A	1	NN-6655 MKQ/MNQ/TNE,NN-6755,NN-7755
11		A09225500AP	CUSHION RUBBER C	1	NN-7755
12		ANE0925000AM	CUSHION RUBBER C	1	NN-5625,NN-5655,NN-5755
13		ANE0925000BD	CUSHION RUBBER C	1	NN-5755
13		ANE0928000BD	CUSHION RUBBER C	1	NN-6655,NN-6755,NN-7755
14		A21874760JP	SHIELD PLATE	1	NN-5625,NN-5655 HNE/MKQ/MNQ/TNE/XNE, NN-5755,NN-6655 HNE/MKQ/TNE, NN-6755 HNE/TNE,NN-7755
15		A10015870GP	BASE	1	NN-5625,NN-5655 HNE/MKQ/MNQ/TNE/XNE, NN-5755
15		A10015690AP	BASE	1	NN-5655 LNK
15		A10015540AP	BASE	1	NN-6655,NN-6755,NN-7755
16		ANE1008-3W0	RUBBER FOOT	4	
17		A10096390GHN	CABINET BODY (U)	1	NN-5625
17		A10096390HQP	CABINET BODY (U)	1	NN-5655,NN-5755
17		A10096240HQP	CABINET BODY (U)	1	NN-6655 HNE/MKQ/MNQ/TNE,NN-6755
17		A10096260HLN	CABINET BODY (U)	1	NN-6655 LNK
17		A10096210HQP	CABINET BODY (U)	1	NN-7755
18		A10266520GP	BASE C	1	NN-5625,NN-5655,NN-5755

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
18		A10265540AP	BASE C	1	NN-6655,NN-6755
18		A10264000AP	BASE C	1	NN-7755
19		A10405500HN	REINFORCE BRACKET	1	NN-6655,NN-6755
19		A10405630PP	REINFORCE BRACKET	1	NN-7755
20		A11295690AP	BASE B	1	NN-5625,NN-5655,NN-5755
20		A11295540AP	BASE B	1	NN-6655,NN-6755,NN-7755
21		A11407000AP	STOPPER	1	
22		A11747050AP	SPACER A	1	NN-6655,NN-6755
23		A11747070AP	SPACER B	1	NN-6655,NN-6755
24		XTWANE4+10RU	SCREW	4	(4X10) FOR MAGNETRON
25	⚠	A200A7200JP	OVEN (U)	1	NN-5625,NN-5755
25	⚠	A200A7230JP	OVEN (U)	1	NN-5655,NN-5625
25	⚠	A200A7080AP	OVEN	1	NN-6655
25	⚠	A200A7060AP	OVEN	1	NN-6755
25	⚠	A200A6220JP	OVEN (U)	1	NN-7755
26		A2055-1000	COVER	1	
27		A21315540AP	PULLEY SHAFT	1	NN-5625,NN-5655,NN-5755,NN-6655,NN-6755
27		A21315180AP	PULLEY SHAFT	1	NN-7755
28		ANE2177-F80	WASHER	1	
29		A202K5180AP	ROLLER B (U)	1	NN-5625,NN-5655,NN-5755 (NOTE 4)
29		A202K5850AP	ROLLER B (U)	1	NN-6655,NN-6755,NN-7755 (NOTE 4)
30		A22135540AP	SENSOR BRACKET A	1	NN-5755,NN-6755,NN-7755
31		A22145540AP	SENSOR BRACKET B	1	NN-5755,NN-6755,NN-7755
32		A290D5690AP	ROLLER RING (U)	1	NN-5625,NN-5655,NN-5755
32		A290D5850GP	ROLLER RING (U)	1	NN-6655,NN-6755,NN-7755
33	⚠	A30077050AP	LOWER HINGE	1	NN-5625,NN-5655,NN-5755,NN-6655,NN-6755
33	⚠	A30075180AP	LOWER HINGE	1	NN-7755
34	⚠	A30204310AG	DOOR HOOK	1	
35		ANE3081B60AP	DOOR HINGE SPACER	1	NN-7755
36		A31374650AP	HOOK SPACER B	1	
37		A31384650AP	HOOK SPACER C	1	
38		A400A5500QP	FAN MOTOR	1	NN-5625,NN-5655 HNE/MKQ/MNQ/TNE/XNE, NN-5755,NN-6655 HNE/MKQ/MNQ/TNE, NN-6755,NN-7755(AC,24W,SINGLE)
38		A400A4000LN	FAN MOTOR	1	NN-5655 LNK,NN-6655 LNK(AC,26W,SINGLE)
39		ANE40086W0AP	FAN	1	
40		A40254660AP	AIR GUIDE A	1	NN-5625,NN-5655,NN-5755
40		A40254760JP	AIR GUIDE A	1	NN-6655,NN-6755,NN-7755
41		A40265540AP	AIR GUIDE B	1	NN-5755,NN-6755
41		A40265500AP	AIR GUIDE B	1	NN-7755
42		A40315540AP	AIR GUIDE C	1	NN-5755,NN-6755
42		A40315500AP	AIR GUIDE C	1	NN-7755
43		A41024760JP	AIR GUIDE CUSHION	1	NN-7755
44		A41445540AP	ORIFICE	1	NN-5625,NN-5655,NN-5755,NN-6655,NN-6755
44		A41444000AP	ORIFICE	1	NN-7755

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
45	⚠	A600B6390HN	H.V.TRANSFORMER	1	NN-5625 HNE,NN-5655 HNE/TNE/XNE, NN-5755 HNE(1.3KVA)
45	⚠	A600B6390QP	H.V.TRANSFORMER	1	NN-5625 MKQ/MNQ,NN-5655 MKQ/MNQ, NN-5755 MKQ/MNQ(1.3KVA)
45	⚠	A600B4000LN	H.V.TRANSFORMER	1	NN-5655 LNK,NN-6655 LNK(1.5KVA)
45	⚠	A600B5540HN	H.V.TRANSFORMER	1	NN-6655 HNE/TNE,NN-6755 HNE/TNE,NN-7755
45	⚠	A600B4760JP	H.V.TRANSFORMER	1	NN-6655 MKQ/MNQ,NN-6755 MKQ/MNQ(1.5KVA)
46		A601L5180AP	TEMP SENSOR	1	
47		A60304080BP	INCANDESCENT LAMP	1	
48		A60374740AP	CAPACITOR BRACKET	1	NN-5625,NN-5655,NN-5755,NN-6655,NN-6755
48		A61884060AP	CAPACITOR BRACKET	1	NN-7755
49		A606V4760JP	PROTECTOR DIODE	1	NN-5625,NN-5655 HNE/MKQ/MNQ/TNE/XNE, NN-5755,NN-6655 HNE/MKQ/MNQ/TNE, NN-6755,NN-7755
49		A606V5110BP	PROTECTOR DIODE	1	NN-5655 LNK,NN-6655 LNK
50		A607S7050AP	STEAM SENSOR	1	NN-5755,NN-6755,NN-7755
51	⚠	A60904140GP	H.V.CAPACITOR	1	NN-5625,NN-5655 HNE/MKQ/MNQ/TNE/XNE, NN-5755(1.0μF,AC2100V)
51	⚠	A60904140AP	H.V.CAPACITOR	1	NN-5655 LNK(0.8μF,AC2100V)
51	⚠	A60904080GP	H.V.CAPACITOR	1	NN-6655 HNE/MKQ/MNQ/TNE,NN-6755, NN-7755(1.14μF,AC2100V)
51	⚠	A60904650AP	H.V.CAPACITOR	1	NN-6655 LNK(0.951μF,AC2000V)
52	⚠	ANE6142-F60	MICROSWITCH	1	(V-15G-3C26) PRIMARY LATCH SWITCH
53	⚠	A61425180AP	MICROSWITCH	1	(L-3C2-2) SECONDARY LATCH SWITCH
54	⚠	A61456240QP	THERMAL CUTOUT	1	
55	⚠	A61524650AP	SOCKET	1	NN-5625,NN-5655,NN-5755
55	⚠	A61524000AP	SOCKET	1	NN-6655,NN-6755,NN-7755
56	⚠	A61785180AP	MICRO SWITCH	1	(L-2C2-2) SHORT SWITCH
57	⚠	2M210-M1E	MAGNETRON	1	
58	⚠	A62024000AP	DIODE,SI	1	
59	⚠	ANE6230Z70BP	FUSE	1	(8A)
60		A62314000AP	FUSE HOLDER	1	
61		A62384650AP	SPACER	1	NN-5625,NN-5655,NN-5755,NN-7755
62		A63264760JP	TURNTABLE MOTOR	1	(3W)
63		A64505540AP	EXHAUST GUIDE B	1	NN-5755,NN-6755
63		A64505500AP	EXHAUST GUIDE B	1	NN-7755
64		A65435540AP	EXHAUST GUIDE C	1	NN-5755,NN-6755
64		A65435500AP	EXHAUST GUIDE C	1	NN-7755
65		A66267050CP	INSTALLATION PLATE	1	NN-6655,NN-6755
66	⚠	A900C7060HN	AC CORD W/PLUG	1	NN-5625 HNE,NN-5655 HNE,NN-5755 HNE, NN-6655 HNE,NN-6755 HNE(220V)
66	⚠	A900C4760MK	AC CORD W/PLUG	1	NN-5625 MKQ/MNQ,NN-5655 MKQ/MNQ, NN-5755 MKQ/MNQ,NN-6655 MKQ/MNQ, NN-6755 MKQ/MNQ(240V)

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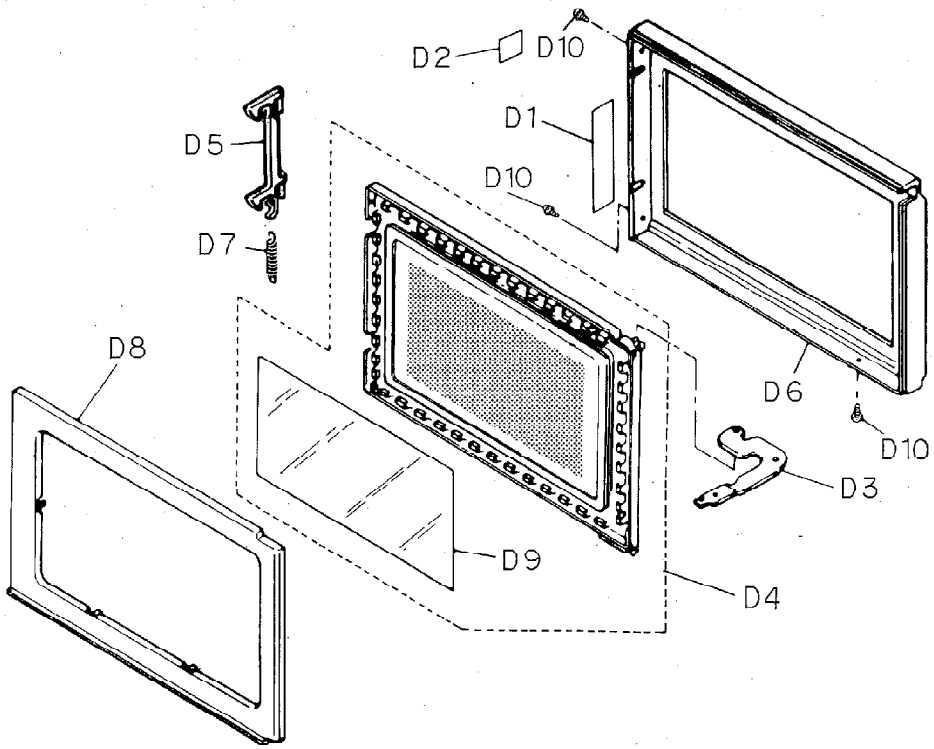
Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
66	⚠	A900C5520AP	AC CORD W/PLUG	1	NN-5655 LNK,NN-6655 LNK(220V)
66	⚠	A900C4080XN	AC CORD W/PLUG	1	NN-5655 TNE,NN-6655 TNE,NN-6755 TNE, NN-7755(220V)
66	⚠	A900C6210QP	AC CORD W/PLUG	1	NN-5655 XNE(220V)
67		A10494050AP	CUSHION RUBBER	1	NN-5655 LNK
67		A10494060AQ	CUSHION RUBBER	1	NN-6655 LNK
		A08877050AP	CAVITY SPRAY PAINT	1	SPRAY CAN, FOR REPAIR OF PAINTED OVEN CAVITY
		A08877000AP	TOUCH-UP PAINT	1	BOTTLE WITH BRUSH, FOR REPAIR OF PAINTED OVEN CAVITY

NOTE 4: When ordering the roller B assy, three rollers will be shipped.
When replacing the roller B, three rollers should be replaced at the same time.
Otherwise the glass cooking tray may not turn smoothly.

DOOR ASSEMBLY



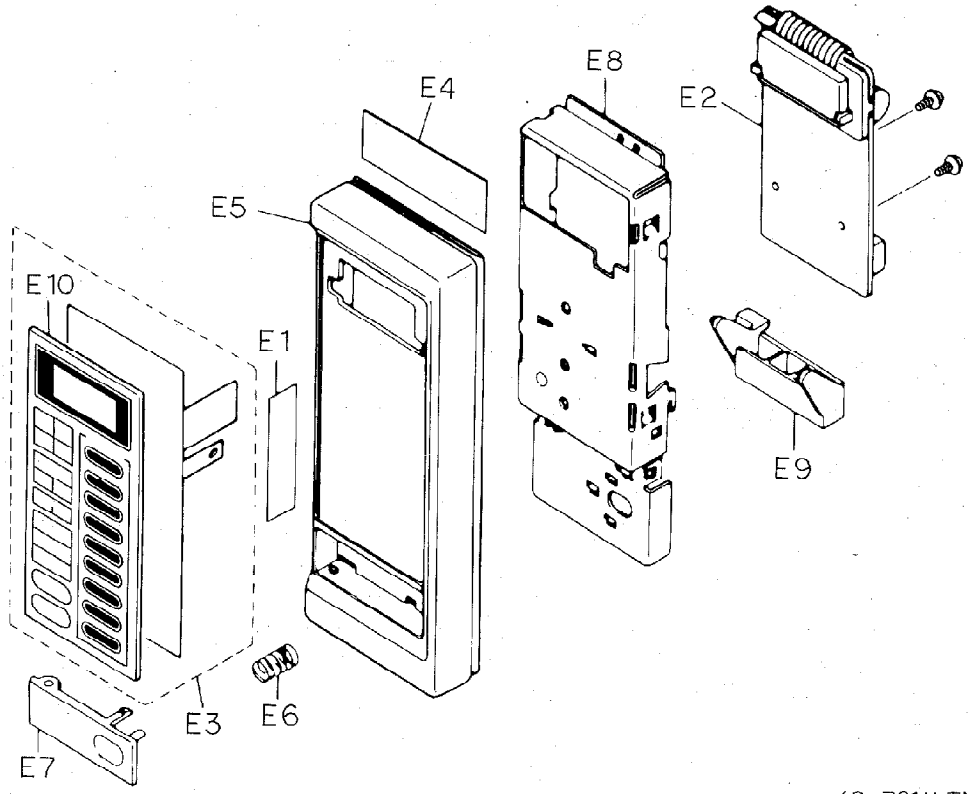
(S-761H TNE)

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
D1		ANE0245X00AP	DHHS LABEL	1	NN-5655 LNK,NN-6655 LNK
D2		A02840000MK	NUMBER LABEL	1	NN-5625 MKQ,NN-5655 MKQ,NN-5755 MKQ, NN-6655 MKQ,NN-6755 MKQ
D3	⚠	A30067050AP	UPPER HINGE	1	NN-5625,NN-5655,NN-5755,NN-6655,NN-6755
D3	⚠	A30065000AP	UPPER HINGE	1	NN-7755
D4	⚠	A302K7200AP	DOOR E (U)	1	NN-5625,NN-5655,NN-5755
D4	⚠	A302K7050AP	DOOR E (U)	1	NN-6655,NN-6755
D4	⚠	A302K5180AP	DOOR E (U)	1	NN-7755
D5		A30184650AP	DOOR KEY	1	
D6	⚠	A302A7220GHN	DOOR A (U)	1	NN-5625
D6	⚠	A302A7220HHN	DOOR A (U)	1	NN-5655 (NOTE 5)
D6	⚠	A302A7210HHN	DOOR A (U)	1	NN-5755
D6	⚠	A302A7080HHN	DOOR A (U)	1	NN-6655 (NOTE 5)
D6	⚠	A302A7060HHN	DOOR A (U)	1	NN-6755
D6	⚠	A302A7000HKN	DOOR A (U)	1	NN-7755
D7		A30214000AP	DOOR KEY SPRING	1	
D8	⚠	A30857200AP	DOOR C	1	NN-5625,NN-5655,NN-5755
D8	⚠	A30857050AP	DOOR C	1	NN-6655,NN-6755
D8	⚠	A30857010AP	DOOR C	1	NN-7755
D9	⚠	A31457200AP	DOOR SCREEN A	1	NN-5625,NN-5655,NN-5755
D9	⚠	A31457050AP	DOOR SCREEN A	1	NN-6655,NN-6755

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
D9	⚠	A31455180AP	DOOR SCREEN A	1	NN-7755
D10		XTBANE3+8BC	SCREW	2	NN-5625,NN-5655,NN-5755,NN-6655,NN-6755 (3X8)
D10		XTBANE3+8BC	SCREW	3	NN-7755 (3X8)

NOTE 5 : Please order DHHS label together (LNK model only).

ESCUTCHEON BASE ASSEMBLY



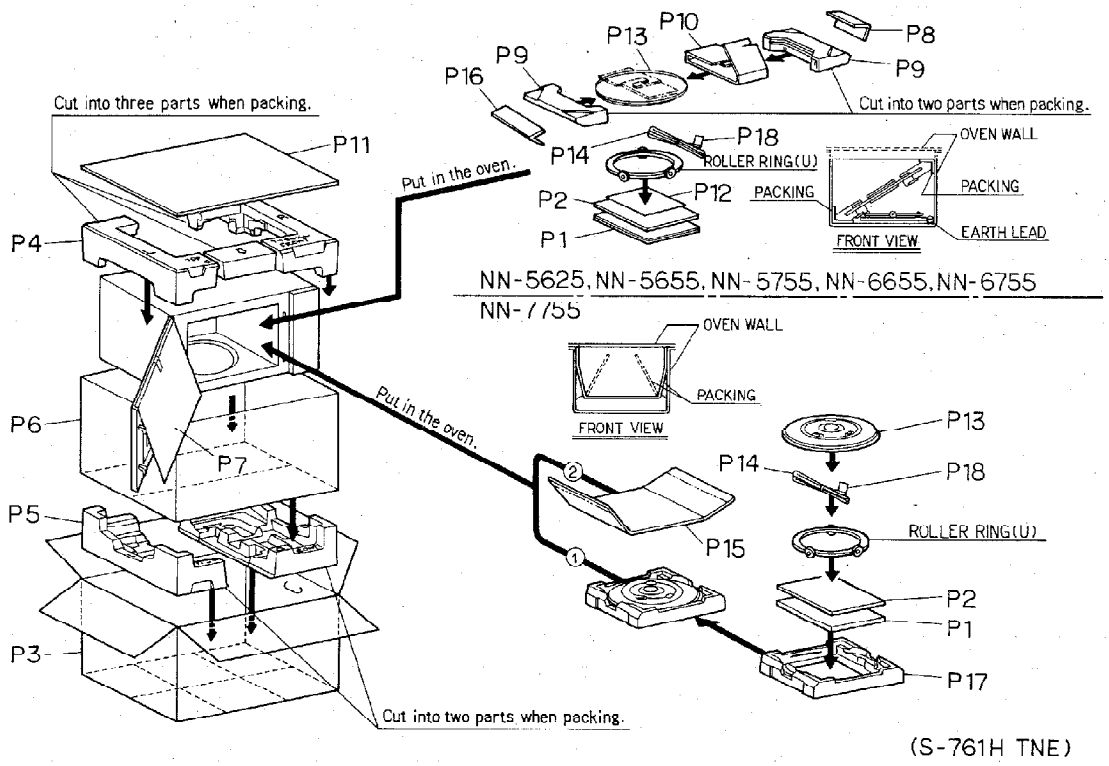
(S-761H TNE)

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
E1		A00077740GHN	NAME PLATE	1	NN-5625 HNE
E1		A00077740GMK	NAME PLATE	1	NN-5625 MKQ
E1		A00077740GMN	NAME PLATE	1	NN-5625 MNQ
E1		A00077740HHN	NAME PLATE	1	NN-5655 HNE
E1		A00077740HLN	NAME PLATE	1	NN-5655 LNK
E1		A00077740HMK	NAME PLATE	1	NN-5655 MKQ
E1		A00077740HMN	NAME PLATE	1	NN-5655 MNQ
E1		A00077740HTN	NAME PLATE	1	NN-5655 TNE
E1		A00077740HXN	NAME PLATE	1	NN-5655 XNE
E1		A00077730HHN	NAME PLATE	1	NN-5755 HNE
E1		A00077730HMK	NAME PLATE	1	NN-5755 MKQ
E1		A00077730HMN	NAME PLATE	1	NN-5755 MNQ
E1		A00077650HHN	NAME PLATE	1	NN-6655 HNE
E1		A00077650HLN	NAME PLATE	1	NN-6655 LNK
E1		A00077650HMK	NAME PLATE	1	NN-6655 MKQ
E1		A00077650HMN	NAME PLATE	1	NN-6655 MNQ
E1		A00077650HTN	NAME PLATE	1	NN-6655 TNE
E1		A00077680HHN	NAME PLATE	1	NN-6755 HNE
E1		A00077680HMK	NAME PLATE	1	NN-6755 MKQ
E1		A00077680HMN	NAME PLATE	1	NN-6755 MNQ
E1		A00077680HTN	NAME PLATE	1	NN-6755 TNE
E1		A00077610HTN	NAME PLATE	1	NN-7755

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
E2		A603L7740HN	D.P.CIRCUIT (U)	1	NN-5625 HNE,NN-5655 HNE/LNK/XNE RTL (W/COMPONENT)
E2		A603L7740MN	D.P.CIRCUIT (U)	1	NN-5625 MKQ/MNQ,NN-5655 MKQ/MNQ RTL (W/COMPONENT)
E2		A603L7740TN	D.P.CIRCUIT (U)	1	NN-5655 TNE RTL (W/COMPONENT)
E2		A603L7730HN	D.P.CIRCUIT (U)	1	NN-5755 HNE RTL (W/COMPONENT)
E2		A603L7730MN	D.P.CIRCUIT (U)	1	NN-5755 MKQ/MNQ RTL (W/COMPONENT)
E2		A603L7650HN	D.P.CIRCUIT (U)	1	NN-6655 HNE/LNK RTL (W/COMPONENT)
E2		A603L7650MN	D.P.CIRCUIT (U)	1	NN-6655 MKQ/MNQ RTL (W/COMPONENT)
E2		A603L7650TN	D.P.CIRCUIT (U)	1	NN-6655 TNE RTL (W/COMPONENT)
E2		A603L7680HN	D.P.CIRCUIT (U)	1	NN-6755 HNE RTL (W/COMPONENT)
E2		A603L7680MN	D.P.CIRCUIT (U)	1	NN-6755 MKQ/MNQ RTL (W/COMPONENT)
E2		A603L7680TN	D.P.CIRCUIT (U)	1	NN-6755 TNE RTL (W/COMPONENT)
E2		A603L7610TN	D.P.CIRCUIT (U)	1	NN-7755 RTL (W/COMPONENT)
E3		A630Y7740GHN	MENBRANE SWITCH (U)	1	NN-5625(W/ESCUTCHEON SHEET)
E3		A630Y7650HHN	MEMBRANE SWITCH (U)	1	NN-5655 HNE/LNK/MKQ/MNQ/TNE, NN-6655(W/ESCUTCHEON SHEET)
E3		A630Y7740HXN	MENBRANE SWITCH (U)	1	NN-5655 XNE(W/ESCUTCHEON SHEET)
E3		A630Y7680HHN	MEMBRANE SWITCH (U)	1	NN-5755,NN-6755(W/ESCUTCHEON SHEET)
E3		A630Y7610HTN	MENBRANE SWITCH (U)	1	NN-7755(W/ESCUTCHEON SHEET)
E4		A80025540AP	ESCUTHEON B	1	
E5		A80347220GHN	ESCUTCHEON BASE	1	NN-5625 (NOTE 6)
E5		A80347080HAP	ESCUTCHEON BASE	1	NN-5655,NN-5755,NN-6655,NN-6755 (NOTE 6)
E5		A80347010HAP	ESCUTCHEON BASE	1	NN-7755 (NOTE 6)
E6		ANE80378A0AG	COOK BUTTON SPRING	1	
E7		A80727220GHN	DOOR OPENING BUTTON	1	NN-5625
E7		A80727010HAP	DOOR OPENING BUTTON	1	NN-5655,NN-5755,NN-6655,NN-6755,NN-7755
E8		A81277050AP	BACK PANEL	1	NN-5625,NN-5655,NN-5755,NN-6655,NN-6755
E8		A81277010AP	BACK PANEL	1	NN-7755
E9		A82567010AP	DOOR OPENING LEVER	1	
E10		A83377740GHN	ESCUTCHEON SHEET	1	NN-5625
E10		A83377650HHN	ESCUTCHEON SHEET	1	NN-5655 HNE/LNK/MKQ/MNQ/TNE,NN-6655
E10		A83377740HXN	ESCUTCHEON SHEET	1	NN-5655 XNE
E10		A83377680HHN	ESCUTCHEON SHEET	1	NN-5755,NN-6755
E10		A83377610HTN	ESCUTCHEON SHEET	1	NN-7755

NOTE 6 : Please order name plate together.

PACKING AND ACCESORIES

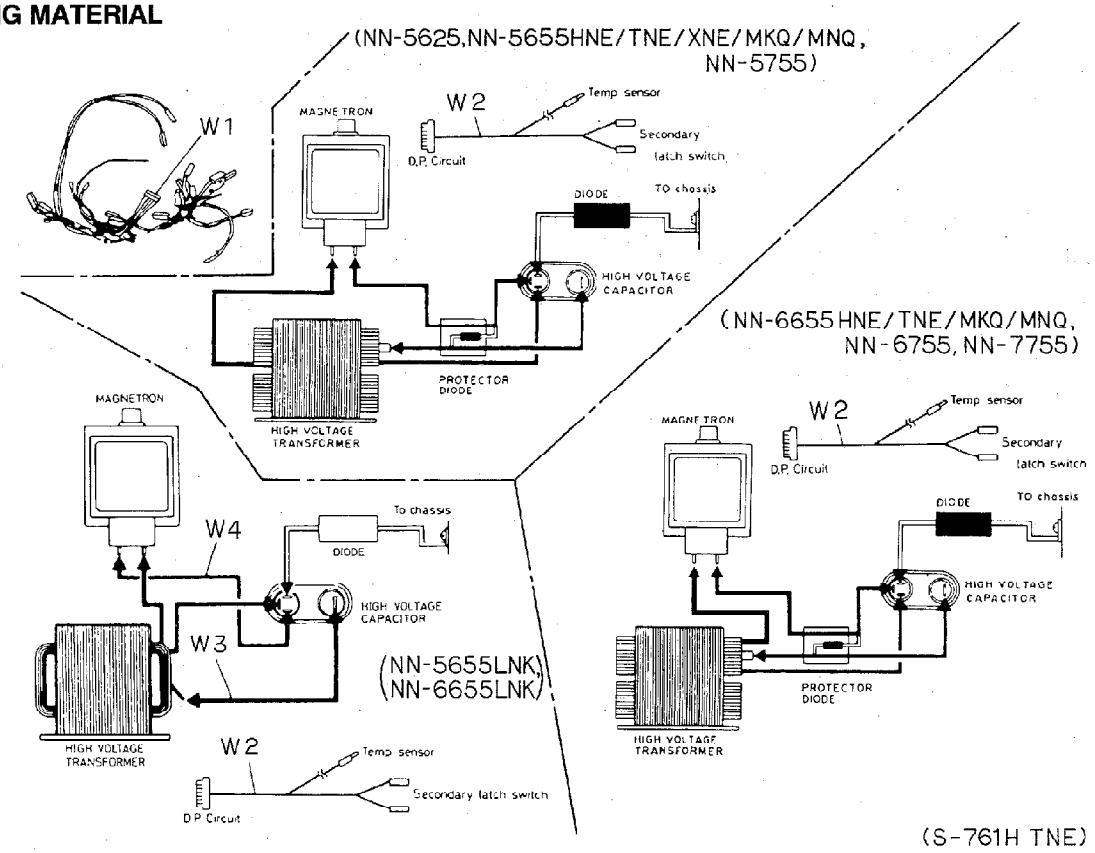


(S-761H TNE)

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
P1		A000B7680HN	COOK BOOK	1	NN-5625 HNE,NN-5655 HNE,NN-5755 HNE, NN-6655 HNE,NN-6755 HNE
P1		A000B7680MN	COOK BOOK	1	NN-5625 MKQ/MNQ,NN-5655 LNK/MKQ/MNQ/TNE,NN-5755 MKQ/MNQ, NN-6655 LNK/MKQ/MNQ/TNE, NN-6755 MKQ/MNQ/TNE,NN-7755
P2		A00037680HN	INSTRUCTION BOOK	1	
P3		A01027740GHN	PACKING CASE,PAPER	1	NN-5625 HNE
P3		A01027740GMK	PACKING CASE,PAPER	1	NN-5625 MKQ
P3		A01027740GMN	PACKING CASE,PAPER	1	NN-5625 MNQ
P3		A01027740HHN	PACKING CASE,PAPER	1	NN-5655 HNE
P3		A01027740HLN	PACKING CASE,PAPER	1	NN-5655 LNK
P3		A01027740HMK	PACKING CASE,PAPER	1	NN-5655 MKQ
P3		A01027740HMN	PACKING CASE,PAPER	1	NN-5655 MNQ
P3		A01027740HTN	PACKING CASE,PAPER	1	NN-5655 TNE
P3		A01027740HXN	PACKING CASE,PAPER	1	NN-5655 XNE
P3		A01027730HHN	PACKING CASE,PAPER	1	NN-5755 HNE
P3		A01027730HMN	PACKING CASE,PAPER	1	NN-5755 MNQ

Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
P3		A01027730HMK	PACKING CASE,PAPER	1	NN-5755 MKQ
P3		A01027650HTN	PACKING CASE,PAPER	1	NN-6655 HNE
P3		A01027650HHN	PACKING CASE,PAPER	1	NN-6655 HNE
P3		A01027650HLN	PACKING CASE,PAPER	1	NN-6655 LNK
P3		A01027650HMK	PACKING CASE,PAPER	1	NN-6655 MKQ
P3		A01027650HMN	PACKING CASE,PAPER	1	NN-6655 MNQ
P3		A01027680HHN	PACKING CASE,PAPER	1	NN-6755 HNE
P3		A01027680HMK	PACKING CASE,PAPER	1	NN-6755 MKQ
P3		A01027680HMN	PACKING CASE,PAPER	1	NN-6755 MNQ
P3		A01027680HTN	PACKING CASE,PAPER	1	NN-6755 TNE
P3		A01027610HTN	PACKING CASE,PAPER	1	NN-7755 TNE
P4		A01047200HN	UPPER FILLER	1	NN-5625,NN-5655 HNE/LNK/MKQ/MNQ/TNE, NN-5755
P4		A01047200KN	UPPER FILLER	1	NN-5655 XNE
P4		A01047050HN	UPPER FILLER	1	NN-6655,NN-6755
P4		A01044000XN	UPPER FILLER	1	NN-7755
P5		A01057200HN	LOWER FILLER	1	NN-5625,NN-5655 HNE/LNK/MKQ/MNQ/TNE, NN-5755
P5		A01057200KN	LOWER FILLER	1	NN-5655 XNE
P5		A01057050HN	LOWER FILLER	1	NN-6655,NN-6755
P5		A01054000XN	LOWER FILLER	1	NN-7755
P6		A01064830AP	VINYL COVER	1	NN-5625,NN-5655,NN-5755
P6		A01065200AP	VINYL COVER	1	NN-6655,NN-6755,NN-7755
P7		ANE01072Q0AP	DOOR SHEET	1	NN-5625,NN-5655,NN-5755
P7		A01075240AP	DOOR SHEET	1	NN-6655,NN-6755
P7		ANE0107580AP	DOOR SHEET	1	NN-7755
P8		A01087220KN	PACKING	1	NN-5655 XNE (CORNER : UPPER)
P9		A01135690QP	TRAY STYROL	1	NN-5625,NN-5655,NN-5755
P9		A01134740AP	TRAY STYROL	1	NN-6655,NN-6755
P10		A01174800KN	TRAY PACKING B	1	NN-5625,NN-5655,NN-5755
P11		A01264800XN	REINFORCE MATERIAL	1	NN-5655 XNE
P12		A04457740GMN	MENU LABEL	1	NN-5625 MNQ
P12		A04457650HMN	MENU LABEL	1	NN-5655 MNQ,NN-6655 MNQ
P12		A04457650HTN	MENU LABEL	1	NN-5655 TNE,NN-6655 TNE
P12		A04457680HMN	MENU LABEL	1	NN-6755 MNQ,NN-5755 MNQ
P12		A04457680HTN	MENU LABEL	1	NN-6755 TNE
P13		A06017210QP	COOKING TRAY	1	NN-5625,NN-5655,NN-5755
P13		A06014000AP	COOKING TRAY	1	NN-6655,NN-6755,NN-7755
P14		A91644000XN	EARTH LEAD	1	NN-5655 TNE,NN-6655 TNE,NN-6755 TNE,NN-7755
P15		A01085500HN	TRAY PACKING	1	NN-7755
P16		A01085750KN	PACKING	1	NN-6655,NN-6755 (CORNER : LOWER)
P17		A01134000AP	TRAY STYROL	1	NN-7755
P18		A00324040XN	EARTH CAUTION LABEL	1	NN-5655 TNE,NN-6655 TNE,NN-6755 TNE, NN-7755

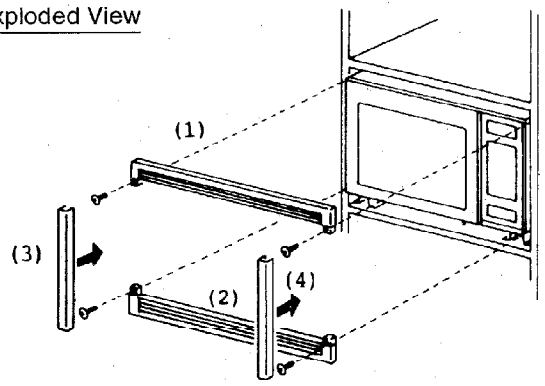
WIRING MATERIAL



Ref. No.		Part No.	Part Name & Description	Pcs/ Set	Remarks
W1		A030A7730HN	LEAD WIRE HARNESS	1	NN-5625,NN-5655 HNE/LNK/MKQ/MNQ/XNE,NN-5755
W1		A030A7740WN	LEAD WIRE HARNESS	1	NN-5655 TNE
W1		A030A7650HN	LEAD WIRE HARNESS	1	NN-6655 HNE/LNK/MKQ/MNQ, NN-6755 HNE/MKQ/MNQ
W1		A030A7610TN	LEAD WIRE HARNESS	1	NN-6655 TNE,NN-6755 TNE,NN-7755
W2		A03537200AP	LEAD WIRE	1	NN-5625,NN-5655,NN-5755
W2		A03537010AP	LEAD WIRE	1	NN-6655,NN-6755,NN-7755
W3		A03504000AP	LEAD WIRE	1	NN-5655 LNK,NN-6655 LNK
W4		A03514000AP	LEAD WIRE	1	NN-5655 LNK,NN-6655 LNK

PARTS LIST FOR MICROWAVE OVEN TRIM KITS

Exploded View



Trim kit Model No.	Top and Bottom Strip Ref No:1.2	Pcs/ Set	Side Strip Ref No:3.4	Pcs/ Set	Microwave Oven Model No.
NN-TK652	A1603A141HGP	2	A1601A310HGP	2	NN-6655,NN-6755
NN-TK792	A16031J0HCP	2	A1601A020HCP	2	NN-7755

NOTE: The top and bottom strips have the same part number and the left and right side strips also have the same part number. These parts will be supplied on one piece per one part number.

(S-761H TNE)

DIGITAL PROGRAMMER CIRCUIT

PARTS LIST

Ref. No.	Part No.	Description	Pcs/ Set	Remarks
BZ1	AEFB22EP2002	BUZZER	1	2.0KHZ
C10	ECA1HM102E	ELECTROLYTIC CAPACITOR,AL	1	1000μF/50V/20%
C11	ECEA1HU101B	ELECTROLYTIC CAPACITOR,AL	1	100μF/50V/20%
C13	ECEA1CKA100B	ELECTROLYTIC CAPACITOR,AL	1	10μF/16V/20%
C14,15,21, 22,24,25,26, 31	ECBT1E103ZF5	CERAMIC CAPACITOR	8	0.01μF/25V/−20%−80%
C17,28,32	AECF50F104Z	CERAMIC CAPACITOR	3	0.1 μF/50V/−20%+80%
C23	ECEA1HKA2R2B	ELECTROLYTIC CAPACITOR,AL	1	2.2μF/50V/20%
CN1	AEEMMF01505W	CONNECTOR	1	5PIN
CN2	AEEMMF00703W	CONNECTOR	1	NN-5755,NN-6755, NN-7755 3PIN
CN4	AEEMMF00D04W	CONNECTOR	1	4PIN
CN5	AEEM09FDZBTM	CONNECTOR	1	
CX1	AEFFT4R19GWT	CERAMIC RESONATOR	1	4.19MHZ
D10,11	AEDNERA1502	DIODE,SI	2	(0.1A)
D12,14,16, 17,19	MA196-(TA5)	DIODE,SI	5	NN-5655 TNE, NN-6655 TNE, NN-6755 TNE, NN-7755 (0.1A)
D12,14,17,19	MA196-(TA5)	DIODE,SI	4	NN-5625,NN-5655 HNE/LNK/MKQ/ MNQ/XNE, NN-5755,NN-6655 HNE/LNK/MKQ/ MNQ,NN-6755 HNE/MKQ/MNQ (0.1A)
D13	MA700A-(TA)	DIODE,SI	1	(0.03A)
D20	ERZC10DK621F	VARISTOR	1	
D21,22	ERZC10DK112A	VARISTOR	2	
DISP1	AEFR6DM9R	DISPLAY	1	
IC1	AEIC38121061	L.S.I	1	
IC2	AN6752	IC	1	
IC3	AEHMH705	IC	1	NN-5755,NN-6755, NN-7755
JPR1	ERD25VJ1R0T	CARBON FILM RESISTOR	1	NN-5625 MKQ/MNQ, NN-5655 MKQ/MNQ 1Ω,1/4W,±5%
JPR1	ERD25VJ683T	CARBON FILM RESISTOR	1	NN-5755 HNE 68KΩ,1/4W,±5%
JPR1	ERD25VJ103T	CARBON FILM RESISTOR	1	NN-5755 MKQ/MNQ 10KΩ,1/4W,±5%
JPR1	ERD25VJ163T	CARBON FILM RESISTOR	1	NN-6655 HNE /LNK/TNE 16KΩ,1/4W ±5%
JPR1	ERD25VJ303T	CARBON FILM RESISTOR	1	NN-6655 MKQ/MNQ 30KΩ,1/4W,±5%
JPR1	ERD25VJ622T	CARBON FILM RESISTOR	1	NN-6755 HNE/TNE 6.2KΩ,1/4W,±5%
JPR1	ERD25VJ332T	CARBON FILM RESISTOR	1	NN-6755 MKQ/MNQ 3.3KΩ,1/4W,±5%
JPR1	ERD25VJ162T	CARBON FILM RESISTOR	1	NN-7755 1.5KΩ,1/4W ±5%
Q1	2SD2006QRTA	TRANSISTOR,SI,1.2W	1	(120MHZ)
Q2	2SD1991AQSTA	TRANSISTOR,SI,400MW	1	NN-5625,NN-5655 HNE/LNK/MKQ/ MNQ/XNE, NN-5755,NN-6655 HNE/LNK/MKQ/ MNQ, NN-6755 HNE /MKQ/MNQ (150MHZ)
Q2,4	2SD1991AQSTA	TRANSISTOR,SI,400MW	2	NN-5655 TNE,NN-6655 TNE, NN-6755 TNE,NN-7755 (150MHZ)
Q6	UN4211-(TA)	TRANSISTOR,SI,300MW	1	
R10,11	ERDS2TJ151T	CARBON FILM RESISTOR	2	150Ω,1/4W±5%
R12,24,25, 26,28,29,37	ERDS2TJ103T	CARBON FILM RESISTOR	7	NN-5625,NN-5655 HNE/LNK/MKQ/ MNQ/XNE, NN-6755,NN-6655 HNE/LNK/MKQ /MNQ, NN-6755 HNE /MKQ/MNQ 10KΩ,1/4W,±5%
R12,24,25, 26,28,29,37, 49	ERDS2TJ103T	CARBON FILM RESISTOR	8	NN-5655 TNE,NN-6655 TNE,NN-6755 TNE, NN-7755 10KΩ,1/4W,±5%
R13	ERDS2TJ472T	CARBON FILM RESISTOR	1	NN-5625,NN-5655, NN-6655 4.7KΩ,1/4W,±5%
R13,14,15	ERDS2TJ472T	CARBON FILM RESISTOR	3	NN-5755,NN-6755,NN-7755 4.7KΩ,1/4W,±5%
R16,22	ERDS2TJ102T	CARBON FILM RESISTOR	2	1.0KΩ,1/4W,±5%
R17,30,31	ERDS2TJ332T	CARBON FILM RESISTOR	3	NN-5655 TNE,NN-6655 TNE, NN-6755 TNE,NN-7755 3.3KΩ,1/4W,±5%
R17,31	ERDS2TJ332T	CARBON FILM RESISTOR	2	NN-5625,NN-5655 HNE/LNK/MKQ/ MNQ/XNE, NN-5755,NN-6655 HNE/LNK/MKQ /MNQ,NN-6755 HNE/MKQ/MNQ 3.3KΩ,1/4W,±5%
R20	ERDS2TJ333T	CARBON FILM RESISTOR	1	33KΩ,1/4W ±5%
R30,38,39, 41,42,43,44, 45,46,47,48	ERDS2TJ104T	CARBON FILM RESISTOR	11	NN-5625,NN-5655 HNE/LNK/MKQ/ MNQ/XNE, NN-5755,NN-6655 HNE/LNK/MKQ /MNQ,NN-6755 HNE/MKQ/MNQ 100KΩ,1/4W,±5%
R38,39,41, 42,43,44,45, 46,47,48,54	ERDS2TJ104T	CARBON FILM RESISTOR	11	NN-5655 TNE,NN-6655 TNE,NN-6755 TNE, NN-7755 100KΩ,1/4W,±5%
R50	ERDS2TJ2R2T	CARBON FILM RESISTOR	1	2.2Ω,1/4W ±5%
R51,53	ERDS2TJ101T	CARBON FILM RESISTOR	2	100Ω,1/4W±5%
RY1	⚠AEG5J1EM18B	POWER RELAY	1	NN-5625,NN-5655 HNE/LNK/MKQ /MNQ/XNE, NN-5755,NN-6655 HNE/LNK/ MKQ/MNQ, NN 6755 HNE/MKQ/MNQ (18V)
RY1,3	⚠AEG5J1EM18B	POWER RELAY	2	NN-6655 TNE,NN-6655 TNE, NN-6755 TNE,NN-7755 (18V)
RY2	⚠AEBG5B18P-1	POWER RELAY	1	(18V)
SPACER	A8284701UAP	SPACER CUSHION	1	FOR DISP
T1	ETP41KCN81QB	L.V.TRANSFORMER	1	
Z1	AEXBM5X104JT	COMPOUND-RESISTOR	1	100KΩX5
ZD1,2	AEDZ5R6ES2T1	ZENER DIODE,SI	2	

SERVICE FIXTURES AND TOOLS

EXTENSION CABLES

NOTE: To be used when repairing the DPC board assembly directly on the oven for easy access of the board.

Ref. No.	Part No.	Description	Pcs/ Set	Remarks
	AT40P003	3 pin Extension Cable	1	Cable No. 48
	AT40P004	4 pin Extension Cable	1	Cable No. 47
	AT40P005	5 pin Extension Cable	1	Cable No. 46
	AT40E006	1 pinX6 Extension Cable	1	Cable No. 9

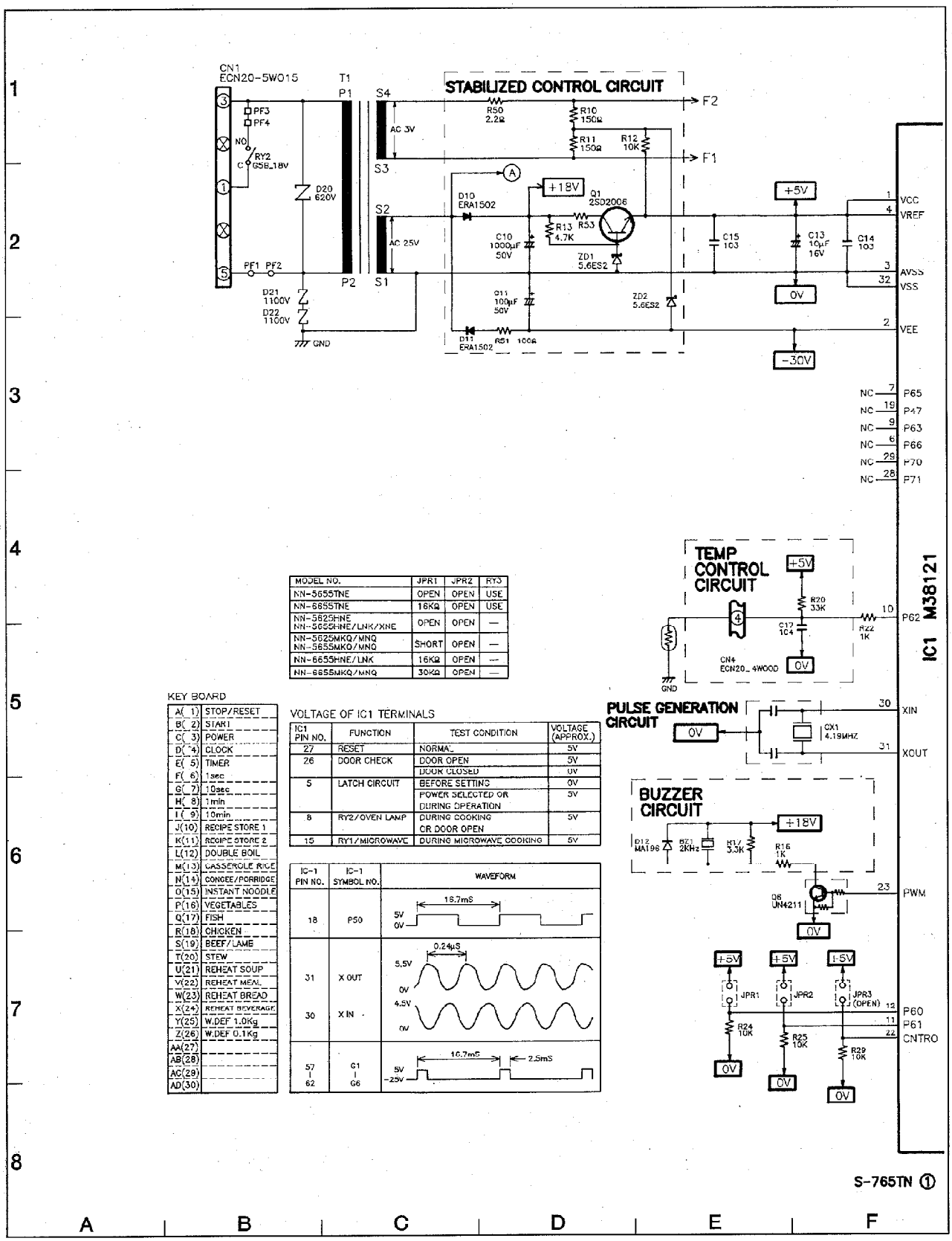
DPC COMMON CHECKER AND ITS CABLE

NOTE: To be used only when DPC common checker is available.

Ref. No.	Part No.	Description	Pcs/ Set	Remarks
	ANE600ZK70QP	DPC Common Checker	1	
	AT30A7020AP	DPC Checker Cable	1	NOTE

DIGITAL PROGRAMMER CIRCUIT (NN-6655, NN-5655, NN-5625)

SCHEMATIC DIAGRAM



MODEL NO.	JPR1	JPR2	RY3
NN-5655TNE	OPEN	OPEN	USE
NN-6655TNE	16KΩ	OPEN	USE
NN-5625HNE NN-5655HNE/LNK/XNE	OPEN	OPEN	—
NN-5625MKQ/MNQ NN-5655MKQ/MNQ	SHORT	OPEN	—
NN-6655HNE/LNK	16KΩ	OPEN	—
NN-6655MKQ/MNQ	30KΩ	OPEN	—

KEY BOARD

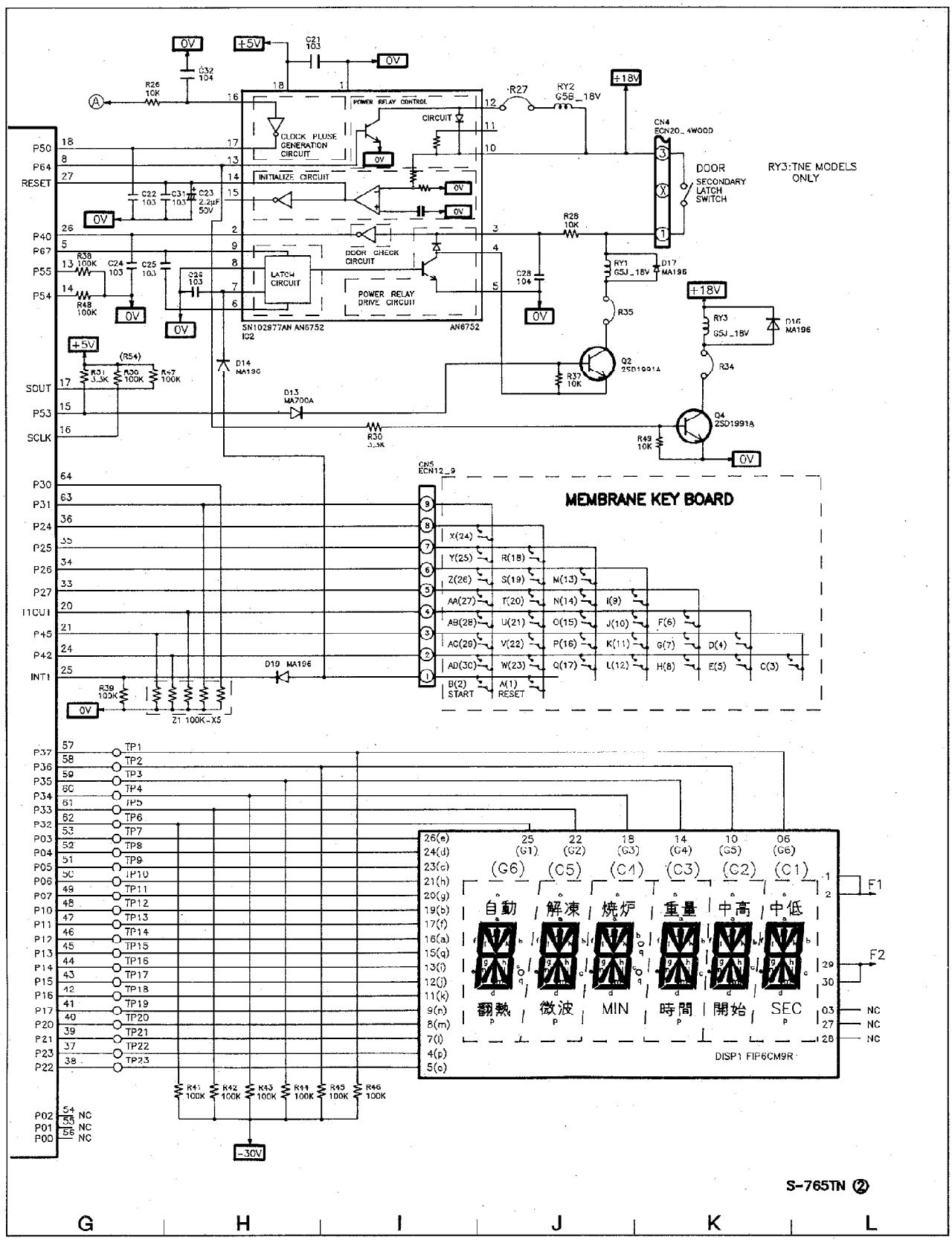
A(1)	STOP/RESET
B(2)	START
C(3)	POWER
D(4)	CLOCK
E(5)	TIMER
F(6)	1sec
G(7)	10sec
H(8)	1min
I (9)	10min
J(10)	RECIPE STORE 1
K(11)	RECIPE STORE 2
L(12)	DOUBLE BOIL
M(13)	CASSEROLE RICE
N(14)	CONGEE/PORRIDGE
O(15)	INSTANT NOODLE
P(16)	VEGETABLES
Q(17)	FISH
R(18)	CHICKEN
S(19)	BEEF/LAMB
T(20)	STEW
U(21)	REHEAT SOUP
V(22)	REHEAT MEAL
W(23)	REHEAT BREAD
X(24)	REHEAT BEVERAGE
Y(25)	W.DEF 1.0Kg
Z(26)	W.DEF 0.1Kg
AA(27)	
AB(28)	
AC(29)	
AD(30)	

VOLTAGE OF IC1 TERMINALS

IC1 PIN NO.	FUNCTION	TEST CONDITION	VOLTAGE (APPROX.)
27	RESET	NORMAL	5V
26	DOOR CHECK	DOOR OPEN	5V
		DOOR CLOSED	0V
5	LATCH CIRCUIT	BEFORE SETTING	0V
		POWER SELECTED OR DURING OPERATION	5V
8	RY2/OVEN LAMP	DURING COOKING OR DOOR OPEN	5V
15	RY1/MICROWAVE	DURING MICROWAVE COOKING	5V

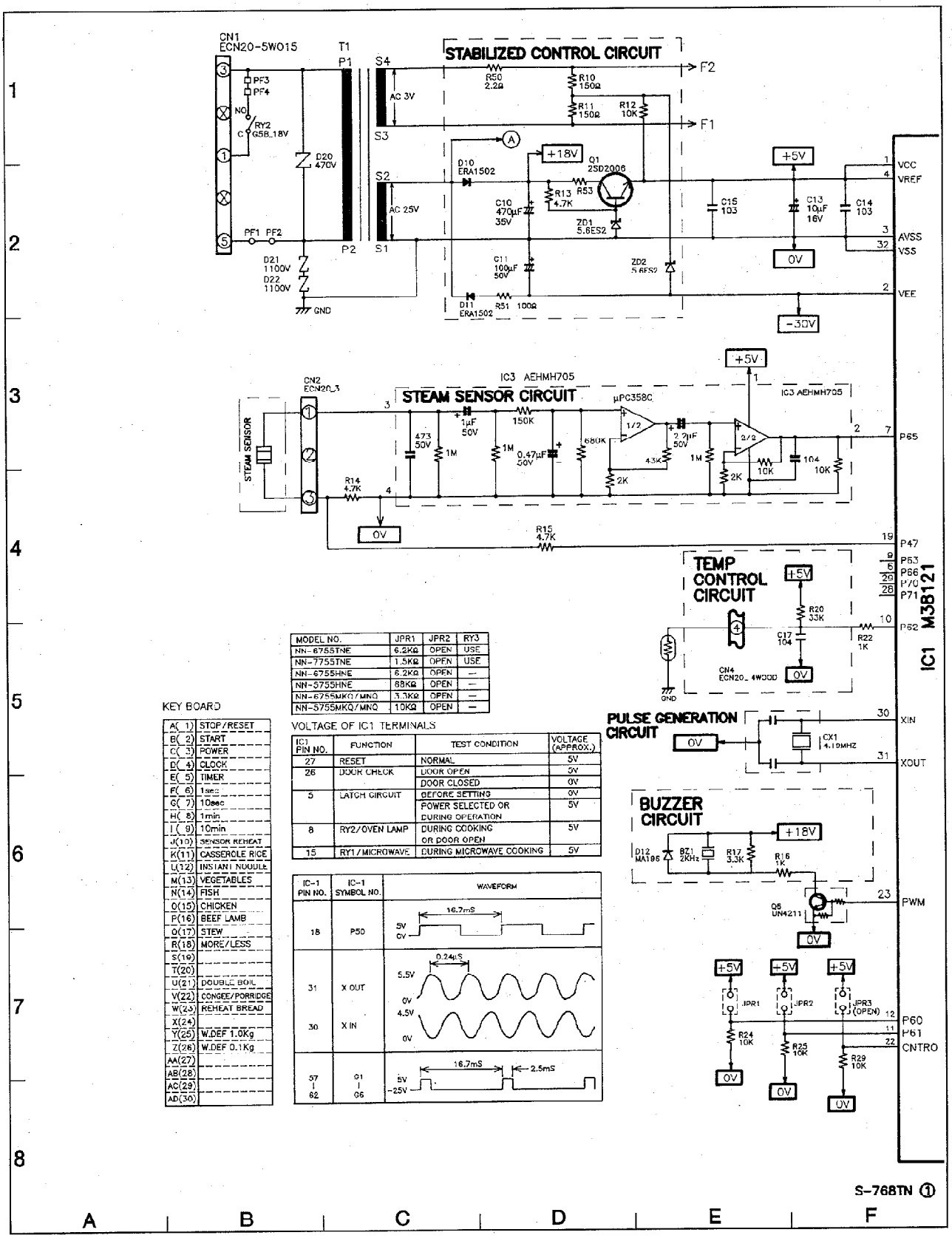
IC-1 PIN NO.	IC-1 SYMBOL NO.	WAVEFORM
18	P50	16.7mS, 5V, 0V
31	X OUT	0.24μS, 5.5V, 0V
30	X IN	4.5V, 0V
57	G1	16.7mS, 2.5mS, 5V, -25V
62	G6	

S-765TN ①


MEMBRANE KEY BOARD
RY3:TNE MODELS ONLY
DOOR SECONDARY LATCH SWITCH
POWER RELAY CONTROL CIRCUIT
CLOCK PLUSE GENERATION CIRCUIT
INITIALIZE CIRCUIT
DOOR CHECK CIRCUIT
LATCH CIRCUIT
POWER RELAY DRIVE CIRCUIT
SN102977AN AN6752 IC2
AN6752
DISP1 FIP6CM9R
自動 解凍 焼炉 重量 中高 中低
翻熱 微波 MIN 時間 開始 SEC
S-765TN ②

DIGITAL PROGRAMMER CIRCUIT (NN-7755, NN-6755, NN-5755)

SCHEMATIC DIAGRAM

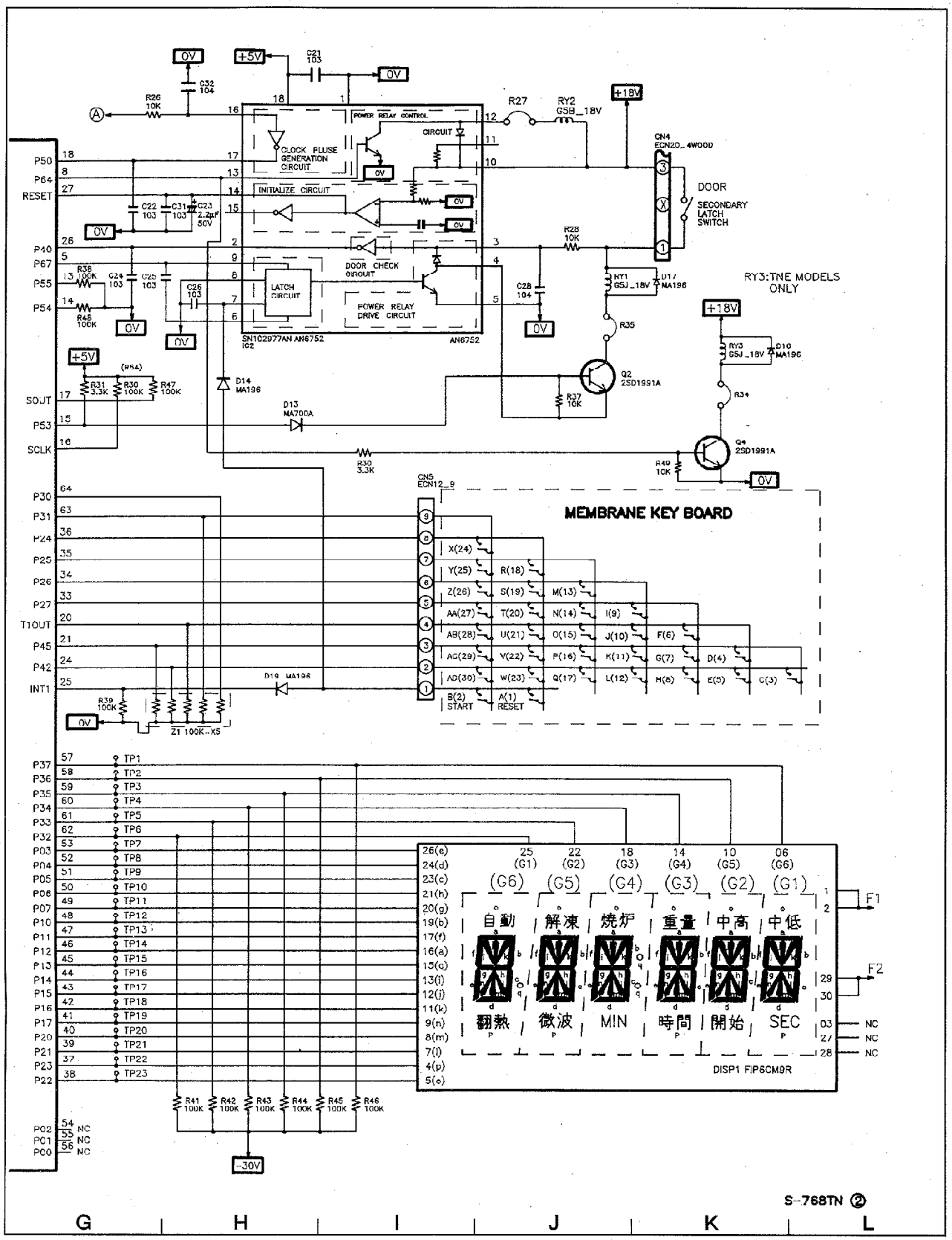


MODEL NO.	JPR1	JPR2	RY3
NN-6755TNE	6.2KΩ	OPEN	USE
NN-7755TNE	1.5KΩ	OPEN	USE
NN-6755HNE	6.2KΩ	OPEN	—
NN-5755HNE	68KΩ	OPEN	—
NN-6755MKQ/MNQ	3.3KΩ	OPEN	—
NN-5755MKQ/MNQ	10KΩ	OPEN	—

IC1 PIN NO.	FUNCTION	TEST CONDITION	VOLTAGE (APPROX.)
27	RESET	NORMAL	5V
26	DOOR CHECK	DOOR OPEN	5V
		DOOR CLOSED	0V
5	LATCH CIRCUIT	BEFORE SETTING	0V
		POWER SELECTED OR DURING OPERATION	5V
8	RY2/OVEN LAMP	DURING COOKING OR DOOR OPEN	5V
15	RY1/MICROWAVE	DURING MICROWAVE COOKING	5V

IC-1 PIN NO.	IC-1 SYMBOL NO.	WAVEFORM
18	P50	16.7mS, 5V, 0V
31	X OUT	0.24μS, 5.5V, 0V
30	X IN	4.5V, 0V
57 – 62	G1 – G6	16.7mS, 2.5mS, 5V, -25V

A(1)	STOP/RESET
B(2)	START
C(3)	POWER
D(4)	CLOCK
E(5)	TIMER
F(6)	1sec
G(7)	10sec
H(8)	1min
I(9)	10min
J(10)	SENSOR REHEAT
K(11)	CASSEROLE RICE
L(12)	INSTANT NOODLE
M(13)	VEGETABLES
N(14)	FISH
O(15)	CHICKEN
P(16)	BEEF LAMB
Q(17)	STEW
R(18)	MORE/LESS
S(19)	
T(20)	
U(21)	DOUBLE BOIL
V(22)	CONGEE/PORRIDGE
W(23)	REHEAT BREAD
X(24)	
Y(25)	W.DEF 1.0Kg
Z(26)	W.DEF 0.1Kg
AA(27)	
AB(28)	
AC(29)	
AD(30)	


MEMBRANE KEY BOARD
DOOR
SECONDARY LATCH SWITCH
RY3:TNE MODELS ONLY
DISP1 FIP6CM9R
自動
解凍
焼炉
重量
中高
中低
翻熱
微波
MIN
時間
開始
SEC
S-768TN ②